



**RIVIAN AUTOMOTIVE, LLC**

**Application for Certification - Part 1**

**2023 Model Year**

**EPA Manufacturer Code: RIV**

**Test Group: PRIVT00.0194**

**Durability Group: N.A.**  
**Evaporative Family: N.A.**

|                                |                                                                    |
|--------------------------------|--------------------------------------------------------------------|
| <b>Test Group Description:</b> | Battery Electric Vehicle                                           |
| <b>Applicable Standards:</b>   | U.S. EPA: Tier 3 Bin 0 MDPV<br>CA: ZEV MDV                         |
| <b>Carlines Covered:</b>       | R1T 21 in, R1T 20 in, R1T 22 in<br>R1S 21 in, R1S 20 in, R1S 22 in |
| <b>Document Date:</b>          | 10/21/2022                                                         |

**For Questions, Contact:**  
S. Zaker, [SepZaker@rivian.com](mailto:SepZaker@rivian.com)



13250 N Haggerty Rd  
Plymouth MI, 48170

Mr. Jim Snyder  
Compliance and Innovative Strategies Division  
Office of Mobile Sources  
Environmental Protection Agency  
2000 Traverwood, Ann Arbor, MI 48105

Subject: MY 2023 Rivian Medium Duty Passenger Vehicle Initial Application for issuance of Certificate of Conformity for Test Group PRIVT00.0194.

Rivian believes that all vehicles within this test group comply with all applicable regulations within Code of Federal Regulations Title 40 Parts 85, 86, 600, and California Code of Regulations Title 13.

|                      |                                               |
|----------------------|-----------------------------------------------|
| Vehicle Category:    | Medium Duty Passenger Vehicle (8532 lbs. GVW) |
| Test Group:          | PRIVT00.0194                                  |
| Evaporative Family:  | N/A                                           |
| Federal Standard:    | Tier 3 Bin 0                                  |
| California Standard: | ZEV                                           |

Test Group Description:

1 - Rivian R1  
9 - 9 Module Battery  
4 - 4 AC motors

Vehicles Covered by this certificate:

Rivian R1T 21in  
Rivian R1S 21in  
Rivian R1T 20in  
Rivian R1S 20in  
Rivian R1T 22in  
Rivian R1S 22in

Your early review and issuance of the certificate will be greatly appreciated. If you have any questions, please email me at [sepzaker@Rivian.com](mailto:sepzaker@Rivian.com) or my phone number available on CDX.

Sepehr Zakeresfahani  
Sr. Manager, Range, Wireless & Material Compliance

A handwritten signature in black ink, appearing to read "Sepehr Zakeresfahani", with a stylized flourish at the end.



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Plymouth MI, 48170

Mr. Jim Snyder  
Compliance and Innovative Strategies Division  
Office of Mobile Sources  
Environmental Protection Agency  
2000 Traverwood, Ann Arbor, MI 48105  
Subject: MY 2023 Rivian Medium Duty Passenger Vehicle OBD letter for issuance of Certificate of Conformity for Test Group PRIVT00.0194.

Rivian is a manufacturer of Battery Electric Vehicle, including R1T and R1S. Battery Electric Vehicles are exempt from OBD II requirements.

|                      |                                               |
|----------------------|-----------------------------------------------|
| Vehicle Category:    | Medium Duty Passenger Vehicle (8532 lbs. GVW) |
| Test Group:          | PRIVT00.0194                                  |
| Evaporative Family:  | N/A                                           |
| Federal Standard:    | Tier 3 Bin 0                                  |
| California Standard: | ZEV                                           |

Test Group Description:

1 - Rivian R1  
9 - 9 Module Battery  
4 - 4 AC motors

Vehicles Covered by this certificate:

Rivian R1T 21in  
Rivian R1S 21in  
Rivian R1T 20in  
Rivian R1S 20in  
Rivian R1T 22in  
Rivian R1S 22in

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13250 N Haggerty Rd  
Plymouth MI, 48170

Mr. Jim Snyder  
Compliance and Innovative Strategies Division  
Office of Mobile Sources  
Environmental Protection Agency  
2000 Traverwood, Ann Arbor, MI 48105

Subject: MY 2023 Rivian Medium Duty Passenger Vehicle Durability letter for issuance of Certificate of Conformity for Test Group PRIVT00.0194.

Rivian is a manufacturer of Battery Electric Vehicle, including R1T and R1S. Battery Electric Vehicles (no tailpipe emissions) are exempt from emissions equipment durability requirements.

|                      |                                               |
|----------------------|-----------------------------------------------|
| Vehicle Category:    | Medium Duty Passenger Vehicle (8532 lbs. GVW) |
| Test Group:          | PRIVT00.0194                                  |
| Evaporative Family:  | N/A                                           |
| Federal Standard:    | Tier 3 Bin 0                                  |
| California Standard: | ZEV                                           |

Test Group Description:

1 - Rivian R1  
9 - 9 Module Battery  
4 - 4 AC motors

Vehicles Covered by this certificate:

Rivian R1T 21in  
Rivian R1S 21in  
Rivian R1T 20in  
Rivian R1S 20in  
Rivian R1T 22in  
Rivian R1S 22in

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Sr. Manager, Range, Wireless & Material Compliance

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13250 N Haggerty Rd  
Plymouth MI, 48170

Mr. Steven Hada  
Emissions Certification and Compliance Division (ECCD)  
Air Resources Board Laboratory  
9528 Telstar Avenue, El Monte, CA 91731

Subject: MY 2023 Rivian Medium-Duty Vehicles Initial Application for issuance of an Executive Order for Test Group PRIVT00.0194.

Rivian believes that all vehicles within this test group comply with all applicable regulations within Code of Federal Regulations Title 40 Parts 85, 86, 600, and California Code of Regulations Title 13.

|                      |                                               |
|----------------------|-----------------------------------------------|
| Vehicle Category:    | Medium Duty Passenger Vehicle (8532 lbs. GVW) |
| Test Group:          | PRIVT00.0194                                  |
| Evaporative Family:  | N/A                                           |
| Federal Standard:    | Tier 3 Bin 0                                  |
| California Standard: | ZEV                                           |

Test Group Description:

1 - Rivian R1  
9 - 9 Module Battery  
4 - 4 AC motors

Vehicles Covered and to be included by this Executive Order:

Rivian R1T 21in  
Rivian R1S 21in  
Rivian R1T 20in  
Rivian R1S 20in  
Rivian R1T 22in  
Rivian R1S 22in

Your early review and issuance of the certificate will be greatly appreciated. If you have any questions, please email me at [sepzaker@Rivian.com](mailto:sepzaker@Rivian.com) or my phone number available on DMS.

Sepehr Zakeresfahani  
Sr. Manager, Range, Wireless & Material Compliance



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## **01.00.00 Communications**

### **01.01.00 Mailing Information**

Rivian Automotive, LLC  
13250 N Haggerty Rd  
Plymouth MI, 48170  
Attention: Sepehr Zakeresfahani

#### **01.01.01 Certification Information**

Rivian Automotive, LLC  
13250 N Haggerty Rd  
Plymouth MI, 48170

#### **01.01.02 Responsible official**

Primary Contact:  
Sepehr Zakeresfahani, Sr. Manager, Range, Wireless & Material Compliance  
[SepZaker@rivian.com](mailto:SepZaker@rivian.com)

## **02.00.00 Confidential Information**

### **02.01.00 Statement of confidentiality**

### **02.02.00 Test vehicle selection**

### **02.03.00 Projected California annual model-year sales**

## **03.00.00 Facilities, equipment, and test procedures**

### **03.01.00 (Reserved)**

### **03.02.00 Battery pre-conditioning procedures (if necessary)**

### **03.03.00 Configurations and Sub configurations**

"Offroad1" is called "Off-Road Upgrade" on the configurator.

### **03.04.00 Test Procedures**

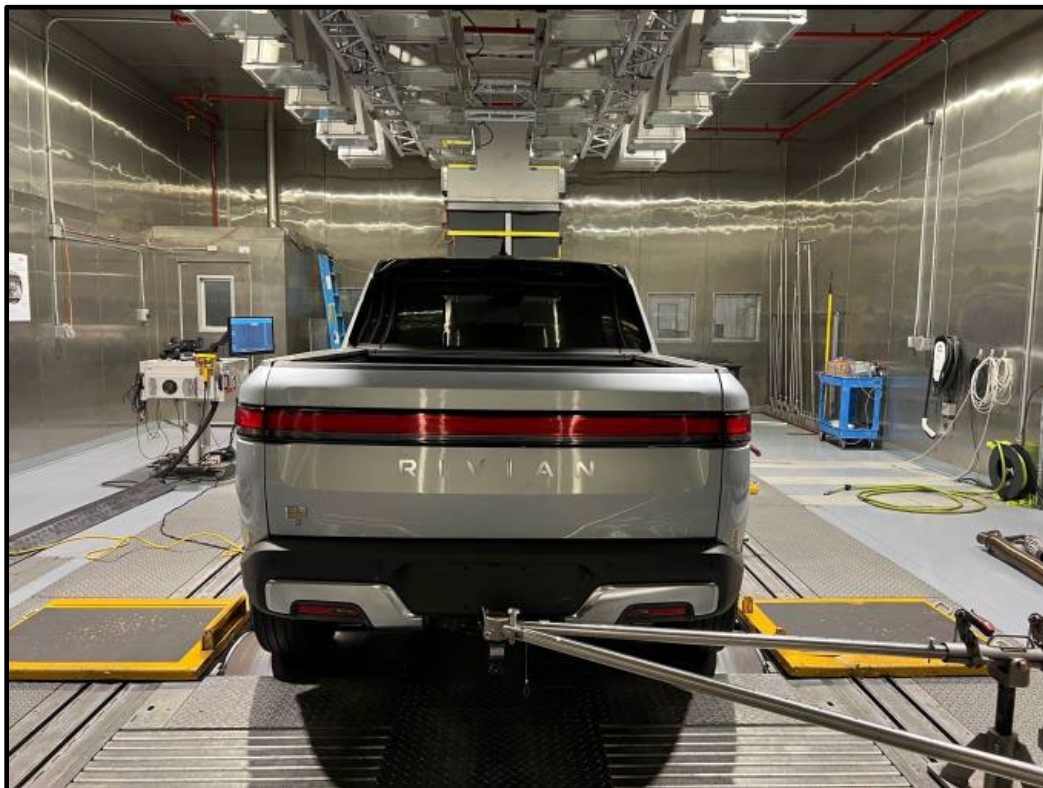
#### **03.04.01 Range Test Procedures**

#### **03.04.02 Description of Coastdown**

### 03.05.00 Special Test Instructions

#### Vehicle Setup:

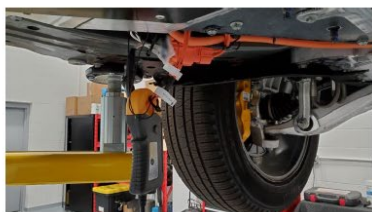
Bleyer rigid bar fixation system. Front bar fixed to the front tow hook, and rear bar fixed to the tow hitch receiver.



#### Instrumentation:

Battery voltage and current measurement were taken using a HBM Gen4TB power analyzer and Hioki CT684X-05 and current clamps.

- Clamps installed to minimize number of measured current channels.
- Current clamp sizes determined by maximum combined circuit current.



DC/AC Converter & PTC Heater – 200A



Front Drive Unit – 500A



Rear Drive Unit – 500A



Power Analyzer



DC/DC Converter, AC Compressor &  
On-Board Charger – 200A

AC Level 2 240 V/ 48 A (11.5 kW) charger was used for charging.

#### 03.05.00 Statement of Compliance

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium Duty Passenger Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2023 Model Year.

#### 04.00.00 (Reserved)

#### 05.00.00 (Reserved)

#### 06.00.00 Maintenance

##### 06.01.00 Test vehicle scheduled maintenance

##### 06.02.00 Recommended customer maintenance schedule

Rivian Service is our proactive and personal approach to vehicle care, centered around the lives of our owners. Through remote diagnostics, a large fleet of mobile service vans staffed with Rivian Technicians, a network of service centers, and a flexible loaner program. Our approach to vehicle care requires very little from you. Rivian maintenance intervals are determined by onboard prognostics. Vehicle and environment sensors measure or model the remaining life of maintenance items. Owners are informed when maintenance is approaching or due by scheduling necessary maintenance items only.

Our fleet of mobile service vans can perform most vehicle care needs at your home, place of work, or wherever your vehicle might be. In many instances, you don't even have to be present, so you can carry on with your day. Mobile service is available for all Rivian owners anywhere in the US and Canada. As we expand into other markets, our suite of Rivian vehicle care capabilities, including mobile service, will continue to be a key component of our strategy.

| Time till repair (year)              | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Miles to repair equivalent           | 12.5K  | 25K    | 37.5K  | 50K    | 62.5K  | 75K    | 87.5K  | 90K    | 102.5K | 115K    |
| R1T Maintenance Schedule             |        |        |        |        |        |        |        |        |        |         |
| Multi-point inspection               | X      | X      | X      | X      | X      | X      | X      | X      | X      | X       |
| Drive unit & gearbox fluid lubricant |        |        |        |        |        |        |        |        | X      |         |

### 06.03.00 Lubricants and heater fuels, if any

Transmission Oil:

BOT 350 M3 transmission fluid for dry electric drive units.

| Test                          | Method     | Units      |              |
|-------------------------------|------------|------------|--------------|
| SAE Grade                     |            | -          | <b>75W</b>   |
| Density @ 15C, Relative       | ASTM D1298 | g/ml       | <b>0.852</b> |
| Appearance Visual             |            | -          | <b>clear</b> |
| Viscosity, Kinematic 100°C    | ASTM D445  | mm²/s      | <b>6.3</b>   |
| Viscosity, Kinematic 40°C     | ASTM D445  | mm²/s      | <b>32</b>    |
| Viscosity Index               |            | -          | <b>154</b>   |
| Viscosity, Brookfield @ -40°C | ASTM D2983 | mPa.s (cP) | <b>10000</b> |
| Pour Point                    | ASTM D97   | °C         | <b>-51</b>   |
| Flash Point, COC              | ASTM D92   | °C         | <b>226</b>   |

Coolant: L228

### Performance of L288 According to ASTM D3306

Table 1 – ASTM D3306 Results

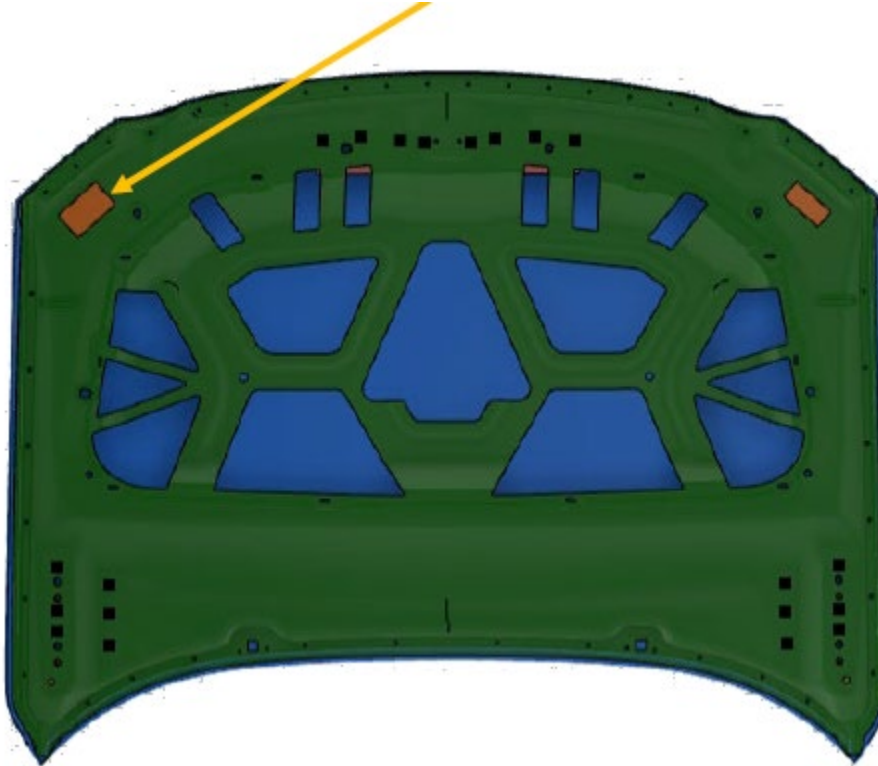
| Item                                                                                  |                                           |           | ASTM D3306<br>Type I | CCI L288 |
|---------------------------------------------------------------------------------------|-------------------------------------------|-----------|----------------------|----------|
| Color                                                                                 |                                           |           | Distinctive          | Yellow   |
| Relative Density 15.5/15.5°C                                                          |                                           |           | 1.110 ~ 1.145        | 1.128    |
| Freezing Point °C                                                                     | 50 vol% in DI water                       |           | -36.4 max.           | -37      |
| Boiling Point °C                                                                      | 50 vol% in DI water                       |           | 108 min.             | 109      |
| Ash content mass%                                                                     |                                           |           | 5 max.               | 1.7      |
| pH                                                                                    | 50 vol% in DI water                       |           | 7.5 ~ 11.0           | 7.6      |
| Chloride μg/g                                                                         |                                           |           | 25 max.              | <25      |
| Water mass%                                                                           |                                           |           | 5 max.               | 3.8      |
| Reserve Alkalinity mL                                                                 |                                           |           | Report               | 8.0      |
| Effect on Automotive Finish                                                           |                                           |           | No Effect            | Pass     |
| Corrosion in<br>Glassware                                                             | Weight Loss <sup>(1)</sup><br>mg/Specimen | Copper    | 10 max.              | 0.2      |
|                                                                                       |                                           | Solder    | 30 max.              | 4.3      |
|                                                                                       |                                           | Brass     | 10 max.              | 1.9      |
|                                                                                       |                                           | Steel     | 10 max.              | 0.7      |
|                                                                                       |                                           | Cast Iron | 10 max.              | 1.4      |
|                                                                                       |                                           | Aluminum  | 30 max.              | +0.2     |
| Simulated<br>Service Test                                                             | Weight Loss <sup>(1)</sup><br>mg/Specimen | Copper    | 20 max.              | 0.7      |
|                                                                                       |                                           | Solder    | 60 max.              | 6.9      |
|                                                                                       |                                           | Brass     | 20 max.              | 5.9      |
|                                                                                       |                                           | Steel     | 20 max.              | 0.2      |
|                                                                                       |                                           | Cast Iron | 20 max.              | 3.3      |
|                                                                                       |                                           | Aluminum  | 60 max.              | 0.1      |
| Corrosion of Cast Aluminum Alloys at Heat-Rejecting Surfaces mg/cm <sup>2</sup> /week |                                           |           | 1.0 max.             | 0.1      |
| Foaming                                                                               | Volume mL                                 |           | 150 max.             | 20       |
|                                                                                       | Break Time s                              |           | 5 max.               | 3        |
| Cavitation-Erosion<br>Rating for pitting, cavitation, and erosion of the water pump   |                                           |           | 8 min.               | 9        |

Note (1): A plus sign designates weight gain.

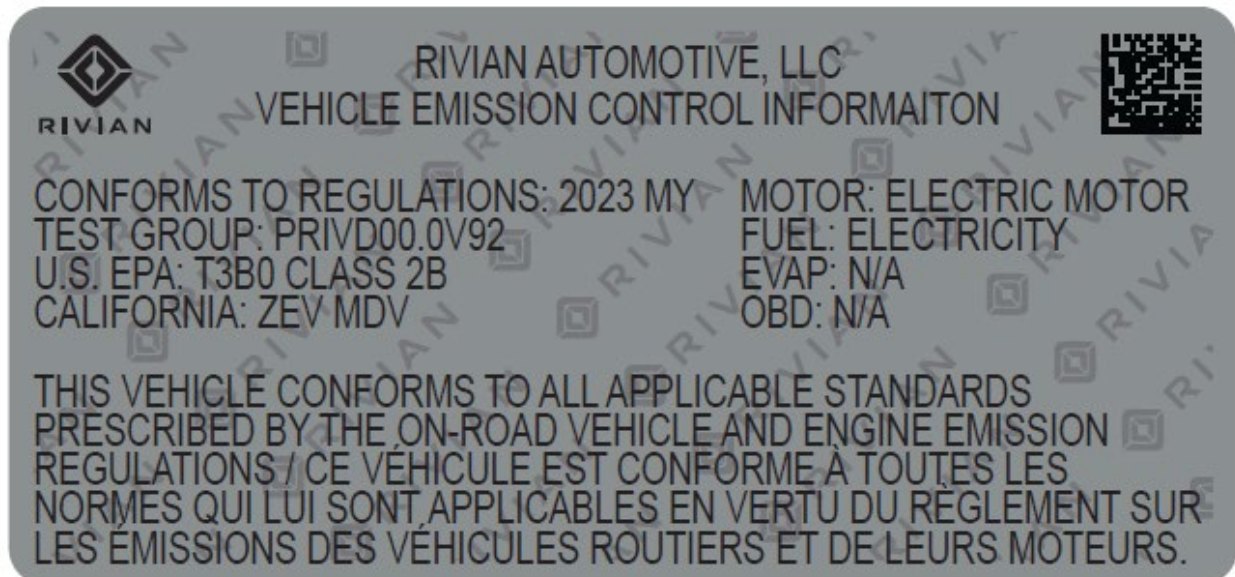
## 07.00.00 Vehicle Emission Control Information (VECI) and Environmental

### 07.01.00 VECI Label locations

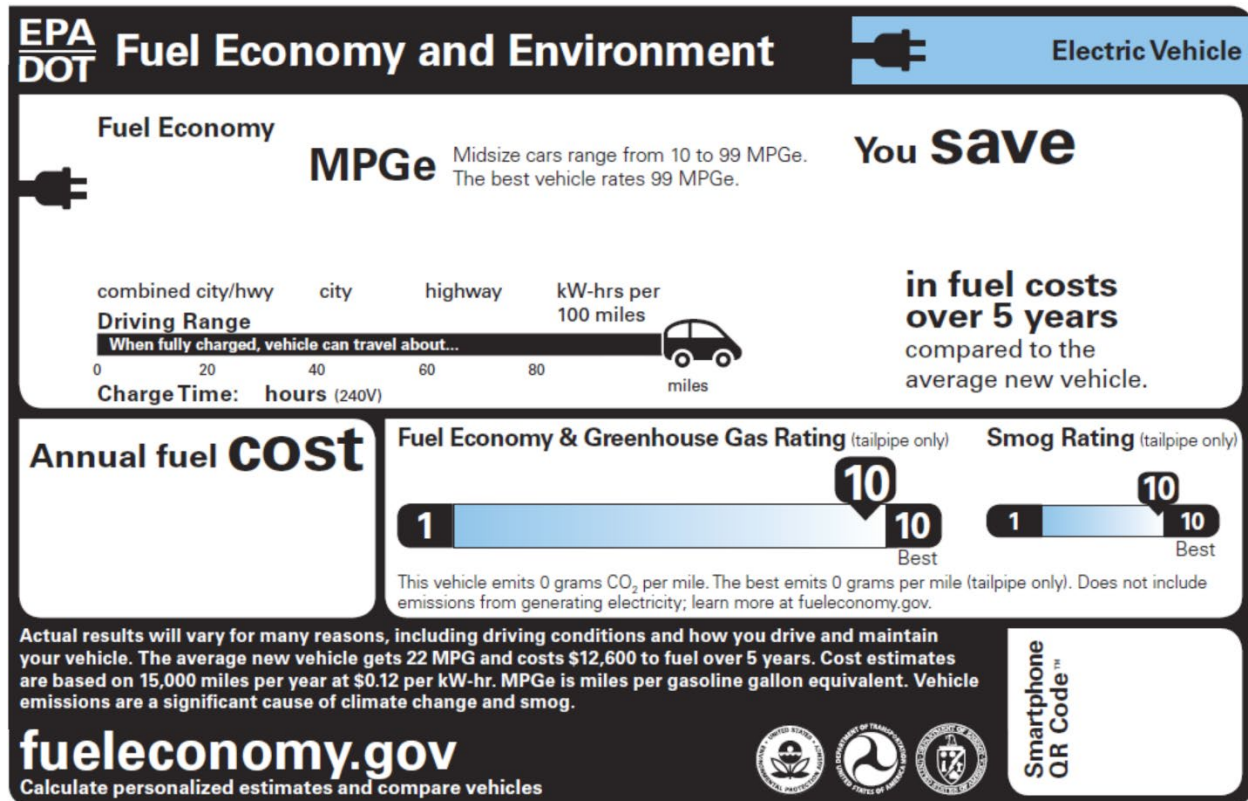
Under-hood, passenger-side, near front of the vehicle.



### 07.02.00 Sample VECI labels



#### 07.03.00 Sample EP label (Formerly called the Smog Index label)



#### 07.04.00 Statement of compliance

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium Duty Passenger Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2023 Model Year.

#### 08.00.00 General technical description

##### 08.01.00 Description of Propulsion System

See 08.01.01 through 08.01.06.

##### 08.01.01 Description of Vehicle Architecture

##### 08.01.02 Description of Drive Unit Architecture

##### 08.01.03 Description of Motor(s)

##### 08.01.04 Description of Gearbox(s)

##### 08.01.05 Description of Inverter(s)

##### 08.01.06 Description of Drivetrain(s)

##### 08.03.00 Description of Batteries

##### 08.03.01 Battery charging capacity

Battery pack nominal capacity is 360 Ah based on a constant current C/5 discharge rate.

#### **08.03.02 Self-discharge information**

Rivian estimates the average self-discharge rate of the battery is likely less than 4% per month.

#### **08.03.03 Description of thermal management system**

The thermal management system for the high voltage battery is a liquid coolant system. A pump circulates coolant thru the battery and a refrigerant-cooled chiller to extract heat and lower the temperature of the battery. In cold weather, an in-line heating element is used to heat the coolant to raise the temperature of the battery.

#### **08.03.04 Definition of end-of-life**

The battery warranty for in vehicle use is 8 years or 175k miles, whichever occurs first. See section 08.03.05 for information on reuse strategy.

#### **08.03.05 Description of battery disposal plan**

Safe battery removal and discharge by Rivian service is recommended. Rivian service will determine which battery components meet standards for reuse. Rivian prioritizes the remanufacture of battery components into equivalent vehicle parts, and then consumption in 2nd life applications. For components which do not meet the necessary standards, Rivian approved partners will transport, break down, and recycle all materials used within the battery.

Rivian is pursuing UL 1973 certification of vehicle battery modules to enable their reuse for 2nd life grid storage applications. Rivian also plans to develop a process to evaluate the suitability of modules from field returned packs for reuse for grid storage applications in line with UL 1974 (Standard for Evaluation for Repurposing Batteries).

If a facility other than one approved by Rivian intends to dispose of the HV Battery or components, the vehicle owner and/or facility assume the responsibility to comply with any local or federal standards that may apply. A certificate from the recycler should be obtained as proof that the materials were properly and legally disposed of.

#### **08.04.00 Description of Controller/Inverter**

See Section 08.01.05

#### **08.05.00 Description of Transmission**

See Section 08.01.04

#### **08.06.00 Description of climate control system**

- Rivian's climate control is a Dual Zone system with Automatic Temperature control.
- HVAC predominantly includes Defrost mode, Panel mode, and Floor mode (or any combination of these three).
- The vehicle could be remotely conditioned to a comfortable climate setpoint using a Mobile Application.
- The system consists of four electronically controlled face vent to direct airflow around passengers.
- The recirculation door is independently controlled by the passengers.
- Auto humidity control.
- Auto/manual blower fan control.
- The system is equipped with Air Conditioning and PTC heater to provide adequate heating and cooling for individual zones.

#### **08.06.01 Electric Heat Pump**

N/A

#### **08.06.02 (Reserved)**

#### **08.06.03 Climate control system logic**

HVAC software has multiple modes which can be selected based on user preference:

- In Manual Mode, the user has complete control on blower speed, temperature, and airflow distribution to face or feet. Recirculation of air is also manually controlled by the user.
- In Auto mode, the software provides adequate heating and cooling requests to control the breathing temperature of both driver and passenger to the requested setpoint. In this mode, the airflow distribution and the blower speeds are automatically selected to maintain the desired temperature from the screen. The software estimates the breathing temperature of individual passenger based on airflow through ducts, In-Cabin sensors, external ambient temperature sensors, and solar load sensors. Recirculation of air inside the cabin is automatically selected based on humidity level inside the cabin.
- Additionally, defrost or demist mode is provided to the user for a clear view while driving. During defog mode, the software supplies conditioned air towards the windshield based on the dew point calculation. If the desired mode is Defrost, the PTC (Positive Temperature Coefficient) heater blows hot air towards the windshield to clear frost.

#### **08.06.04 (Reserved)**

#### **08.07.00 Description of Regenerative Braking System**

The regenerative braking system can use up to all 4 electric propulsion motors to convert the vehicles kinetic energy to electrical energy which is stored in the vehicles high voltage battery.

#### **08.07.01 Control logic**

The regenerative control logic uses two main inputs, acceleration pedal position and vehicle speed to determine a desired regenerative braking torque. The requested braking torque is then distributed between the front and rear axles based on the vehicle state, axle disconnect status, and calculated normal force on each axle. The regenerative torque is limited when the vehicle experiences low wheel traction events (e.g. ice or snow).

#### **08.07.02 Percentage of braking performed on road by each axle**

The percentage of braking performed on road by each axle is constantly changing and redistributing. It is based on the driver demanded torque and has been optimized for vehicle dynamics and range attributes.

#### **08.07.03 Overlap of friction brakes and regenerative braking**

One pedal driving is the default, in this mode, fully releasing the pedal yields the maximum regen level. And about halfway through the pedal travel is the neutral point, where regen is limited. As the driver manually increases primary service brake pressure and friction braking torque, the vehicle regen level will proportionally ramp down to 0 Nm based on the driver braking pressure. The ramp profile is affected by many factors, such as those described in 08.07.01. When autohold is active and the vehicle approaches standstill, the braking torque will blend from motors to friction brakes.

#### **08.08.00 Description of charger**

The Rivian R1T and R1S is capable of conductive charging using Electric Vehicle Supply Equipment (EVSE) off-board chargers for the following charge methods:

- AC Level 1 Charging at 120 V / 12 A
- AC Level 2 Charging at 240 V / 48 A
- DC Fast Charging at up to 210 kW

For Level 1 and Level 2 charging, the vehicle is equipped with an On-Board Charger that will convert the single-phase alternating current from the EVSE into DC current.

The vehicle is equipped with a SAE J1772 Type 1 Combo CCS inlet, located at the front left corner of the vehicle and covered by a charge port door.

#### **08.08.01 Proper recharging procedures**

Detailed instructions can be found in the owner's guide.

- Put the vehicle in park (P).
- Open the charge port door, located at the front left corner of the vehicle.
- Plug the charger connector from the Electric Vehicle Supply Equipment (EVSE) into the vehicle's charge inlet, so that the connector is fully seated and latched.
- Follow any instructions provided by the EVSE to begin the charging session.
- When the charging session is complete, it is indicated by the vehicle's center touchscreen and by an indicator light at the vehicle's charge inlet.
- Stop the charge via the vehicle touchscreen or button at the charge port, or follow any instructions provided by the EVSE to end the charging session.
- Remove the charger connector and close the charge port door.

Charging starts automatically. There may be a short delay if the battery requires heating or cooling.

**NOTE:** When the vehicle is plugged in but not actively charging, it draws energy from the charger instead of using the battery.

**The charge port light color indicates the charging status:**

- White (solid), Ready.
- White (pulsing), Starting to charge.
- Green (pulsing), Charging.
- Green (solid), Charge Complete.
- Blue (solid), Charge Scheduled.
- Red (solid), Error.
- Red (pulsing), Error.

**Select 100%, 85%, or 70% to set a charging limit based on your range needs.**

- Daily, requires less time to charge and maximizes battery efficiency.
- Extended, allows you to travel farther on one charge.
- Trip, maximizes range and requires more time to charge.

**To stop the charging session:**

- Select Stop Charge from Energy menu.
- Unplug the charge cable and return the plug to the charger.
- Store the cable neatly to prevent a tripping hazard.

**To turn on a charge schedule:**

Set up a schedule to charge at home when electricity costs are less or to stagger charging times between multiple vehicles.

- Select Charge Schedule from the Energy menu.
- Select days to schedule.
- Select times to start and stop charging.
- To disable the charge schedule, select Off.

**08.08.02 Power requirements necessary to recharge vehicle**

The Rivian R1T and R1S complies with industry standard SAE J1772 for AC Level 1 (120 VAC) and AC Level 2 (240 VAC) charging.

AC Level 1 charging requires a conventional 110-120 Volt AC grounded outlet capable of the rating of the EVSE to be used. A portable EVSE cordset that is capable of AC Level 1 charging is included with the vehicle.

AC Level 2 charging requires a 220-240 Volt AC outlet capable of the rating of the EVSE to be used. A portable EVSE cordset that is capable of AC Level 2 charging is included with the vehicle.

**08.09.00 Accessories which draw energy from the batteries**

Energy from the high voltage battery is used to power the electric heater and electric air conditioning. Energy is drawn by an on-board DC-DC converter that converts the high voltage to 14 Volts DC to maintain the low voltage battery system and power 12 Volt systems. Energy is also drawn by an on-board DC-AC converter to provide AC power to NEMA 15-5 outlets located in the vehicle.

**08.10.00 Other unique features (e.g. solar panels)**

N/A

#### **08.11.00 Description of warning system(s) for maintenance / malfunction**

The Rivian vehicles communicate maintenance and malfunction needs to the driver through easy to read timely notifications. If issues occur, the notification system uses a combination of telltales, texts, and visuals to explain the situation. Our notifications are simple to understand, communicate when the vehicle needs service, and alerts the customer if an issue arises. The customer leaves the experience feeling confident knowing the system explains the proper actions to take. Any notifications that appears in the driver's instrument cluster retire to the center display so the driver can recall still relevant notifications at a later time.

The Rivian R1T and R1S provides warning telltale lights on the driver's display for minor and major defects. A message and an audible tone may also be provided for some major defects. Detailed descriptions of the warnings can be found in the Owner's Guide.

#### **08.11.01 Cut off terminal voltages for prevention of battery damage**

Battery management control system is programmed to prevent a state of under-voltage or over-voltage per the voltage limits defined by Rivian. Contactor opens and DTCs are set when voltage of the 9 module 135 kWh battery is below 216 V or above 459 V.

**09.00.00 (Reserved)**

**10.00.00 (Reserved)**

**11.00.00 Starting and shifting schedules**

**12.00.00 (Reserved)**

**13.00.00 (Reserved)**

**14.00.00 (Reserved)**

**15.00.00 (Reserved)**

**16.00.00 (Reserved)**

**17.00.00 California requirements**

**17.01.00 Statement of compliance**

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium Duty Passenger Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2023 Model Year.

**17.01.01 General statement**

Rivian confirms that the production vehicles covered by this application will be substantially the same as the vehicles tested for the purposes of this application.

**17.01.02 Drivability statement**

N/A

**17.02.00 Supplemental Data and Certification Review Sheets**

See attached.

**17.03.00 (Reserved)**

**17.04.00 Credits**

**17.04.01 Description of multi-manufacturer arrangements**

N/A

**17.04.02 Credit calculation**

### **17.05.00 Vehicle Safety**

The Rivian architecture comprises a body attached to a skateboard frame structure. The primary structure encompasses engineered crush zones used to, in case of a crash, absorb the crash energy. The “safety cage” comprises of body pillars, side impact bars, floor sills and roof rails (working with other structural elements) and with an advanced optimized restraint system to help properly restrain and protect occupants.

#### **17.05.01 All information for safe operation of vehicle**

See sections 03.04.00, 03.05.00, and 11.00.00.

#### **17.05.02 Information on safe handling of battery system**

The high voltage battery is to be serviced and handled only by technicians authorized by Rivian.

#### **17.05.03 Description of emergency procedures**

Emergency procedures are described in the Owner’s Guide. Please refer to the Owner’s Guide for details. Emergency procedures for first responders are described in the Emergency Response Guide provided for this vehicle.

### **17.06.00 (Reserved)**

## Test Results:

### R1T 21in All-Purpose Mode:

| MCT                                              |             |                 |        |           |           |           |        |
|--------------------------------------------------|-------------|-----------------|--------|-----------|-----------|-----------|--------|
| UDDS                                             |             | Date: 9/28/2022 |        |           |           | Ref: R108 |        |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                                | 2169.32 Wh  | 7.506 mi        | 289.01 | 72.25     | 4.91      | 3.46      | 116.61 |
| 2                                                | 2035.41 Wh  | 7.496 mi        | 271.52 | 67.88     | 88.97     | 3.68      | 124.11 |
| 3                                                | 1988.58 Wh  | 7.461 mi        | 266.54 | 66.63     | 87.33     | 3.75      | 126.44 |
| 4                                                | 1986.20 Wh  | 7.470 mi        | 265.89 | 66.47     | 87.12     | 3.76      | 126.75 |
| HFEDS                                            |             |                 |        |           |           |           |        |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                                | 3305.34 Wh  | 10.269 mi       | 321.86 | 160.93    |           | 3.11      | 104.70 |
| 2                                                | 3208.29 Wh  | 10.251 mi       | 312.98 | 156.49    |           | 3.20      | 107.67 |
| CSC                                              |             |                 |        |           |           |           |        |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                                | 94020.21 Wh | 236.677 mi      | 397.25 |           |           | 2.52      | 84.83  |
| 2                                                | 18859.35 Wh | 48.246 mi       | 390.90 |           |           | 2.56      | 86.21  |
| MCT Recharge                                     |             |                 |        | Ref: R110 |           |           |        |
| MCT Energy                                       |             | 127572.70 Wh    |        |           |           |           |        |
| Charge Energy                                    |             | 148673.00 Wh    |        |           |           |           |        |
| Efficiency & Range                               |             |                 |        |           |           |           |        |
| City                                             |             | Highway         |        |           | Combined  |           |        |
| 475.41 mi                                        |             | 401.90 mi       |        |           | 442.33 mi |           |        |
| Adjusted Range - Standard 0.7 Adjustment Factor  |             |                 |        |           |           |           |        |
| 309.63 miles                                     |             |                 |        |           |           |           |        |
| Adjusted Range - Rivian 0.7157 Adjustment Factor |             |                 |        |           |           |           |        |
| 316.60 miles                                     |             |                 |        |           |           |           |        |

R1T 21in Conserve Mode:

| MCT                                              |             |                 |        |        |           |        |        |
|--------------------------------------------------|-------------|-----------------|--------|--------|-----------|--------|--------|
| UDDS                                             |             | Date: 9/27/2022 |        |        |           | Ref:   | R080   |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                                | 2019.78 Wh  | 7.458 mi        | 270.83 | 67.71  | 4.30      | 3.69   | 124.43 |
| 2                                                | 1963.84 Wh  | 7.465 mi        | 263.07 | 65.77  | 86.30     | 3.80   | 128.10 |
| 3                                                | 1843.49 Wh  | 7.433 mi        | 248.00 | 62.00  | 81.35     | 4.03   | 135.89 |
| 4                                                | 1841.49 Wh  | 7.433 mi        | 247.73 | 61.93  | 81.27     | 4.04   | 136.04 |
| HFEDS                                            |             |                 |        |        |           |        |        |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                                | 2951.80 Wh  | 10.254 mi       | 287.87 | 143.94 |           | 3.47   | 117.07 |
| 2                                                | 2811.49 Wh  | 10.243 mi       | 274.49 | 137.24 |           | 3.64   | 122.77 |
| CSC                                              |             |                 |        |        |           |        |        |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                                | 93811.81 Wh | 265.514 mi      | 353.32 |        |           | 2.83   | 95.38  |
| 2                                                | 20020.77 Wh | 57.903 mi       | 345.76 |        |           | 2.89   | 97.47  |
| MCT Recharge                                     |             |                 |        |        |           | Ref:   | R111   |
| MCT Energy                                       |             | 127264.48 Wh    |        |        |           |        |        |
| Charge Energy                                    |             | 148097.00 Wh    |        |        |           |        |        |
| Efficiency & Range                               |             |                 |        |        |           |        |        |
| City                                             |             | Highway         |        |        | Combined  |        |        |
| 502.59 mi                                        |             | 452.61 mi       |        |        | 480.10 mi |        |        |
| Adjusted Range - Standard 0.7 Adjustment Factor  |             |                 |        |        |           |        |        |
| 336.07 miles                                     |             |                 |        |        |           |        |        |
| Adjusted Range - Rivian 0.7254 Adjustment Factor |             |                 |        |        |           |        |        |
| 348.27 miles                                     |             |                 |        |        |           |        |        |

R1S 21in All-Purpose Mode:

| MCT                                             |             |                 |        |        |           |        |        |
|-------------------------------------------------|-------------|-----------------|--------|--------|-----------|--------|--------|
| UDDS                                            |             | Date: 10/7/2022 |        |        |           | Ref:   | R073   |
| Cycle                                           | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                               | 2401.42 Wh  | 7.439 mi        | 322.81 | 80.70  | 5.99      | 3.10   | 104.39 |
| 2                                               | 2283.30 Wh  | 7.445 mi        | 306.68 | 76.67  | 100.33    | 3.26   | 109.89 |
| 3                                               | 2161.85 Wh  | 7.443 mi        | 290.44 | 72.61  | 95.02     | 3.44   | 116.03 |
| 4                                               | 2172.75 Wh  | 7.458 mi        | 291.34 | 72.84  | 95.31     | 3.43   | 115.67 |
| HFEDS                                           |             |                 |        |        |           |        |        |
| Cycle                                           | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                               | 3608.21 Wh  | 10.241 mi       | 352.32 | 176.16 |           | 2.84   | 95.65  |
| 2                                               | 3441.75 Wh  | 10.261 mi       | 335.41 | 167.70 |           | 2.98   | 100.47 |
| CSC                                             |             |                 |        |        |           |        |        |
| Cycle                                           | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                               | 93742.85 Wh | 219.647 mi      | 426.79 |        |           | 2.34   | 78.96  |
| 2                                               | 19664.17 Wh | 46.766 mi       | 420.48 |        |           | 2.38   | 80.15  |
| MCT Recharge                                    |             |                 |        |        |           | Ref:   | R121   |
| MCT Energy                                      |             | 129476.30 Wh    |        |        |           |        |        |
| Charge Energy                                   |             | 151361.00 Wh    |        |        |           |        |        |
| Efficiency & Range                              |             |                 |        |        |           |        |        |
| City                                            |             | Highway         |        |        | Combined  |        |        |
| 436.46 mi                                       |             | 376.54 mi       |        |        | 409.50 mi |        |        |
| Adjusted Range - Standard 0.7 Adjustment Factor |             |                 |        |        |           |        |        |
| 286.65 miles                                    |             |                 |        |        |           |        |        |

R1S 21in Conserve Mode:

| MCT                                             |             |                 |        |        |           |           |        |
|-------------------------------------------------|-------------|-----------------|--------|--------|-----------|-----------|--------|
| UDDS                                            |             | Date: 10/6/2022 |        |        |           | Ref: R113 |        |
| Cycle                                           | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh    | MPGe   |
| 1                                               | 2050.49 Wh  | 7.443 mi        | 275.48 | 68.87  | 4.38      | 3.63      | 122.33 |
| 2                                               | 1956.73 Wh  | 7.447 mi        | 262.77 | 65.69  | 86.20     | 3.81      | 128.25 |
| 3                                               | 1924.49 Wh  | 7.443 mi        | 258.57 | 64.64  | 84.82     | 3.87      | 130.33 |
| 4                                               | 1920.32 Wh  | 7.459 mi        | 257.45 | 64.36  | 84.45     | 3.88      | 130.90 |
| HFEDS                                           |             |                 |        |        |           |           |        |
| Cycle                                           | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh    | MPGe   |
| 1                                               | 2986.60 Wh  | 10.248 mi       | 291.44 | 145.72 |           | 3.43      | 115.63 |
| 2                                               | 2920.71 Wh  | 10.252 mi       | 284.89 | 142.45 |           | 3.51      | 118.29 |
| CSC                                             |             |                 |        |        |           |           |        |
| Cycle                                           | Energy      | Distance        | Wh/mi  | Euwgt  | Ewgt      | mi/kWh    | MPGe   |
| 1                                               | 93363.93 Wh | 259.869 mi      | 359.27 |        |           | 2.78      | 93.80  |
| 2                                               | 21838.48 Wh | 61.355 mi       | 355.94 |        |           | 2.81      | 94.68  |
| MCT Recharge                                    |             |                 |        |        |           | Ref: R114 |        |
| MCT Energy                                      |             | 128961.76 Wh    |        |        |           |           |        |
| Charge Energy                                   |             | 150644.00 Wh    |        |        |           |           |        |
| Efficiency & Range                              |             |                 |        |        |           |           |        |
| City                                            |             | Highway         |        |        | Combined  |           |        |
| 496.29 mi                                       |             | 447.53 mi       |        |        | 474.35 mi |           |        |
| Adjusted Range - Standard 0.7 Adjustment Factor |             |                 |        |        |           |           |        |
| 332.04 miles                                    |             |                 |        |        |           |           |        |

R1S 22in All-Purpose Mode:

| MCT                                             |             |              |          |        |           |        |        |
|-------------------------------------------------|-------------|--------------|----------|--------|-----------|--------|--------|
| UDDS                                            |             | Date:        | 9/9/2022 |        |           | Ref:   | R088   |
| Cycle                                           | Energy      | Distance     | Wh/mi    | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                               | 2470.54 Wh  | 7.448 mi     | 331.70   | 82.93  | 6.40      | 3.01   | 101.60 |
| 2                                               | 2324.96 Wh  | 7.448 mi     | 312.16   | 78.04  | 102.05    | 3.20   | 107.96 |
| 3                                               | 2250.85 Wh  | 7.447 mi     | 302.25   | 75.56  | 98.81     | 3.31   | 111.50 |
| 4                                               | 2248.04 Wh  | 7.463 mi     | 301.22   | 75.31  | 98.47     | 3.32   | 111.88 |
| HFEDS                                           |             |              |          |        |           |        |        |
| Cycle                                           | Energy      | Distance     | Wh/mi    | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                               | 3739.63 Wh  | 10.258 mi    | 364.55   | 182.27 |           | 2.74   | 92.44  |
| 2                                               | 3614.91 Wh  | 10.245 mi    | 352.86   | 176.43 |           | 2.83   | 95.50  |
| CSC                                             |             |              |          |        |           |        |        |
| Cycle                                           | Energy      | Distance     | Wh/mi    | Euwgt  | Ewgt      | mi/kWh | MPGe   |
| 1                                               | 91198.29 Wh | 206.009 mi   | 442.69   |        |           | 2.26   | 76.13  |
| 2                                               | 20253.00 Wh | 46.403 mi    | 436.46   |        |           | 2.29   | 77.21  |
| MCT Recharge                                    |             |              |          |        |           | Ref:   | R092   |
| MCT Energy                                      |             | 128100.21 Wh |          |        |           |        |        |
| Charge Energy                                   |             | 148343.55 Wh |          |        |           |        |        |
| Efficiency & Range                              |             |              |          |        |           |        |        |
| City                                            |             | Highway      |          |        | Combined  |        |        |
| 419.01 mi                                       |             | 357.12 mi    |          |        | 391.16 mi |        |        |
| Adjusted Range - Standard 0.7 Adjustment Factor |             |              |          |        |           |        |        |
| 273.81 miles                                    |             |              |          |        |           |        |        |

R1S 22in Conserve Mode:

| MCT                                             |             |                |        |           |           |           |        |
|-------------------------------------------------|-------------|----------------|--------|-----------|-----------|-----------|--------|
| UDDS                                            |             | Date: 9/7/2022 |        |           |           | Ref: R085 |        |
| Cycle                                           | Energy      | Distance       | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                               | 2149.36 Wh  | 7.410 mi       | 290.04 | 72.51     | 4.85      | 3.45      | 116.19 |
| 2                                               | 2058.93 Wh  | 7.437 mi       | 276.84 | 69.21     | 90.74     | 3.61      | 121.73 |
| 3                                               | 2074.37 Wh  | 7.489 mi       | 276.97 | 69.24     | 90.78     | 3.61      | 121.67 |
| 4                                               | 2032.19 Wh  | 7.463 mi       | 272.31 | 68.08     | 89.25     | 3.67      | 123.75 |
| HFEDS                                           |             |                |        |           |           |           |        |
| Cycle                                           | Energy      | Distance       | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                               | 3211.91 Wh  | 10.251 mi      | 313.33 | 156.67    |           | 3.19      | 107.55 |
| 2                                               | 3169.38 Wh  | 10.264 mi      | 308.79 | 154.40    |           | 3.24      | 109.14 |
| CSC                                             |             |                |        |           |           |           |        |
| Cycle                                           | Energy      | Distance       | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                               | 93100.26 Wh | 237.519 mi     | 391.97 |           |           | 2.55      | 85.98  |
| 2                                               | 20698.93 Wh | 53.639 mi      | 385.89 |           |           | 2.59      | 87.33  |
| MCT Recharge                                    |             |                |        | Ref: R086 |           |           |        |
| MCT Energy                                      |             | 128495.33 Wh   |        |           |           |           |        |
| Charge Energy                                   |             | 148348.00 Wh   |        |           |           |           |        |
| Efficiency & Range                              |             |                |        |           |           |           |        |
| City                                            |             | Highway        |        |           | Combined  |           |        |
| 466.20 mi                                       |             | 413.08 mi      |        |           | 442.30 mi |           |        |
| Adjusted Range - Standard 0.7 Adjustment Factor |             |                |        |           |           |           |        |
| 309.61 miles                                    |             |                |        |           |           |           |        |

R1S 20in All-Purpose Mode:

| MCT                                              |             |              |           |           |           |        |        |
|--------------------------------------------------|-------------|--------------|-----------|-----------|-----------|--------|--------|
| UDDS                                             |             | Date:        | 9/15/2022 |           |           | Ref:   | R094   |
| Cycle                                            | Energy      | Distance     | Wh/mi     | Euwgt     | Ewgt      | mi/kWh | MPGe   |
| 1                                                | 2644.02 Wh  | 7.432 mi     | 355.76    | 88.94     | 7.34      | 2.81   | 94.73  |
| 2                                                | 2452.91 Wh  | 7.439 mi     | 329.74    | 82.43     | 107.64    | 3.03   | 102.20 |
| 3                                                | 2354.22 Wh  | 7.447 mi     | 316.13    | 79.03     | 103.20    | 3.16   | 106.60 |
| 4                                                | 2362.06 Wh  | 7.460 mi     | 316.63    | 79.16     | 103.37    | 3.16   | 106.43 |
| HFEDS                                            |             |              |           |           |           |        |        |
| Cycle                                            | Energy      | Distance     | Wh/mi     | Euwgt     | Ewgt      | mi/kWh | MPGe   |
| 1                                                | 3936.52 Wh  | 10.254 mi    | 383.88    | 191.94    |           | 2.60   | 87.79  |
| 2                                                | 3768.48 Wh  | 10.245 mi    | 367.83    | 183.91    |           | 2.72   | 91.62  |
| CSC                                              |             |              |           |           |           |        |        |
| Cycle                                            | Energy      | Distance     | Wh/mi     | Euwgt     | Ewgt      | mi/kWh | MPGe   |
| 1                                                | 90875.85 Wh | 198.417 mi   | 458.00    |           |           | 2.18   | 73.58  |
| 2                                                | 19739.20 Wh | 43.459 mi    | 454.20    |           |           | 2.20   | 74.20  |
| MCT Recharge                                     |             |              |           | Ref: R095 |           |        |        |
| MCT Energy                                       |             | 128133.26 Wh |           |           |           |        |        |
| Charge Energy                                    |             | 149954.00 Wh |           |           |           |        |        |
| Efficiency & Range                               |             |              |           |           |           |        |        |
| City                                             |             | Highway      |           |           | Combined  |        |        |
| 398.48 mi                                        |             | 340.91 mi    |           |           | 372.58 mi |        |        |
| Adjusted Range - Standard 0.7 Adjustment Factor  |             |              |           |           |           |        |        |
| 260.80 miles                                     |             |              |           |           |           |        |        |
| Adjusted Range - Rivian 0.7387 Adjustment Factor |             |              |           |           |           |        |        |
| 275.21 miles                                     |             |              |           |           |           |        |        |

R1S 20in Conserve Mode:

| MCT                                              |             |                 |        |           |           |           |        |
|--------------------------------------------------|-------------|-----------------|--------|-----------|-----------|-----------|--------|
| UDDS                                             |             | Date: 9/13/2022 |        |           |           | Ref: R090 |        |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                                | 2326.79 Wh  | 7.467 mi        | 311.61 | 77.90     | 5.63      | 3.21      | 108.15 |
| 2                                                | 2190.39 Wh  | 7.466 mi        | 293.38 | 73.35     | 96.03     | 3.41      | 114.87 |
| 3                                                | 2117.45 Wh  | 7.414 mi        | 285.60 | 71.40     | 93.48     | 3.50      | 118.00 |
| 4                                                | 2133.68 Wh  | 7.419 mi        | 287.60 | 71.90     | 94.13     | 3.48      | 117.18 |
| HFEDS                                            |             |                 |        |           |           |           |        |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                                | 3392.84 Wh  | 10.248 mi       | 331.07 | 165.54    |           | 3.02      | 101.79 |
| 2                                                | 3330.09 Wh  | 10.240 mi       | 325.20 | 162.60    |           | 3.07      | 103.63 |
| CSC                                              |             |                 |        |           |           |           |        |
| Cycle                                            | Energy      | Distance        | Wh/mi  | Euwgt     | Ewgt      | mi/kWh    | MPGe   |
| 1                                                | 92111.37 Wh | 226.324 mi      | 406.99 |           |           | 2.46      | 82.80  |
| 2                                                | 21080.41 Wh | 51.845 mi       | 406.60 |           |           | 2.46      | 82.88  |
| MCT Recharge                                     |             |                 |        | Ref: R091 |           |           |        |
| MCT Energy                                       |             | 128683.02 Wh    |        |           |           |           |        |
| Charge Energy                                    |             | 149943.10 Wh    |        |           |           |           |        |
| Efficiency & Range                               |             |                 |        |           |           |           |        |
| City                                             |             | Highway         |        |           | Combined  |           |        |
| 444.85 mi                                        |             | 392.16 mi       |        |           | 421.14 mi |           |        |
| Adjusted Range - Standard 0.7 Adjustment Factor  |             |                 |        |           |           |           |        |
| 294.80 miles                                     |             |                 |        |           |           |           |        |
| Adjusted Range - Rivian 0.7167 Adjustment Factor |             |                 |        |           |           |           |        |
| 301.82 miles                                     |             |                 |        |           |           |           |        |

## Certification Summary Information Report

|                                   |                       |                                     |                        |
|-----------------------------------|-----------------------|-------------------------------------|------------------------|
| <b>Manufacturer</b>               | Rivian Automotive LLC | <b>Manufacturer Code</b>            | RIV                    |
| <b>Test Group</b>                 | PRIVT00.0194          | <b>Evaporative/Refueling Family</b> | --                     |
| <b>Certificate Number</b>         | --                    | <b>CARB Executive Order #</b>       | --                     |
| <b>Certificate Issue Date</b>     | --                    | <b>Certificate Revision Date</b>    | --                     |
| <b>Certificate Effective Date</b> | --                    | <b>Conditional Certificate</b>      | --                     |
| <b>CSI Revision #</b>             | --                    | <b>CSI Submission/Revision Date</b> | 10/20/2022 12:55:09 AM |
| <b>Model Year</b>                 | 2023                  |                                     |                        |

  
**Test Group Information**

|                          |                       |                                        |    |
|--------------------------|-----------------------|----------------------------------------|----|
| <b>CSI Type</b>          | Update for Correction | <b>Running Change Reference Number</b> | -- |
| <b>GHG Exempt Status</b> | Not Exempt            |                                        |    |

  
**Drive Sources and Fuel(s)**

**Drive Source #1:** Electric Motor

| Fuel        | Basic Fuel Metering System | Lean Burn Strategy Indicator |
|-------------|----------------------------|------------------------------|
| Electricity | --                         | --                           |

|                                                     |                                                                                                                        |                                                            |              |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------|
| <b>Hybrid Indicator</b>                             | No                                                                                                                     |                                                            |              |
| <b>Multiple Fuel Storage</b>                        | --                                                                                                                     | <b>Rechargeable Energy Storage System Indicator</b>        | Yes          |
| <b>Multiple Fuel Combustion</b>                     | --                                                                                                                     | <b>Off-board Charge Capable Indicator</b>                  | Yes          |
| <b>Fuel Cell Indicator</b>                          | No                                                                                                                     | <b>EPA Vehicle Class</b>                                   | MDPV         |
| <b>Federal Clean Fuel Vehicle</b>                   | Yes                                                                                                                    | <b>Federal Clean Fuel Vehicle Standard</b>                 | ZEV          |
| <b>Federal Clean Fuel Vehicle ILEV</b>              | No                                                                                                                     | <b>California Partial Zero Emissions Vehicle Indicator</b> | --           |
| <b>Durability Group Name</b>                        | PRIVR0000194                                                                                                           | <b>Durability Group Equivalency Factor</b>                 | 1            |
| <b>Reduced Fee Test Group</b>                       | No                                                                                                                     | <b>Certification Region Code(s)</b>                        | FA, CA       |
| <b>Complies with HD GHG 2b/3 regulations?</b>       | No                                                                                                                     |                                                            |              |
| <b>Introduction into Commerce Date</b>              | --                                                                                                                     | <b>CAP2000 Conditional Certificate?</b>                    | N/A          |
| <b>Independent Commercial Importer?</b>             | --                                                                                                                     | <b>Alternative Fuel Converter Certificate?</b>             | --           |
| <b>SFTP Federal Composite Compliance Identifier</b> | Not Applicable                                                                                                         | <b>SFTP Tier 2 Composite CO Option</b>                     | No           |
| <b>SFTP LEV-III Composite Compliance Indicator</b>  | No                                                                                                                     |                                                            |              |
| <b>OBD Compliance Type</b>                          | CARB                                                                                                                   | <b>OBD Demonstration Vehicle Test Group</b>                | PRIVT00.0194 |
| <b>Test Group OBD Compliance Level</b>              | Full - no deficiencies                                                                                                 | <b>Number of Test Group OBD Deficiencies</b>               | 0            |
| <b>OBD Deficiencies Comments</b>                    | OBD COMPLIANCE IS NOT APPLICABLE TO ZEV. PARAMETERS ARE PLACEHOLDERS TO ALLOW DATASET SUBMISSION.                      |                                                            |              |
| <b>Mfr Test Group Comments</b>                      | ALL-PURPOSE AND CONSERVE DURABILITY IS NOT APPLICABLE TO ZEV. PARAMETERS ARE PLACEHOLDERS TO ALLOW DATASET SUBMISSION. |                                                            |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>        | --                                                                                                                     |                                                            |              |

## Certification Summary Information Report

|                                                  |                     |                                                          |                                     |
|--------------------------------------------------|---------------------|----------------------------------------------------------|-------------------------------------|
| <b>Test Group</b>                                | PRIVT00.0194        | <b>Evaporative/Refueling Family</b>                      | --                                  |
| <b>Models Covered by this Certificate</b>        |                     |                                                          |                                     |
| <b>Carline Manufacturer</b>                      | <b>Division</b>     | <b>Carline</b>                                           | <b>Certification Region Code(s)</b> |
| <b>Drive System</b>                              | <b>Trans - Type</b> | <b>- # of Gears</b>                                      | <b>Trans - Lockup</b>               |
| Rivian Automotive LLC                            | 1 - Rivian          | 720 - R1T 20in                                           | Federal                             |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 522 - R1S 22in                                           | California + CAA Section 177 states |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 720 - R1T 20in                                           | California + CAA Section 177 states |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 722 - R1T 22in                                           | Federal                             |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 522 - R1S 22in                                           | Federal                             |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 721 - R1T 21in                                           | Federal                             |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 721 - R1T 21in                                           | California + CAA Section 177 states |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 722 - R1T 22in                                           | California + CAA Section 177 states |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 520 - R1S 20in                                           | Federal                             |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 520 - R1S 20in                                           | California + CAA Section 177 states |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 521 - R1S 21in                                           | Federal                             |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| Rivian Automotive LLC                            | 1 - Rivian          | 521 - R1S 21in                                           | California + CAA Section 177 states |
| Part-time 4-Wheel Drive                          | Automatic           | 1                                                        | No                                  |
| <b>Engine Description</b>                        |                     |                                                          |                                     |
| <b>Hybrid Type</b>                               | --                  | <b>Hybrid Description</b>                                | --                                  |
| <b>Engine Type</b>                               | --                  | <b>Mfr Engine Description</b>                            | --                                  |
| <b>Engine Block Arrangement</b>                  | --                  | <b>Mfr Engine Block Arrangement Description</b>          | --                                  |
| <b>Camless Valvetrain Indicator</b>              | --                  | <b>Oil Viscosity/Classification</b>                      |                                     |
| <b>Number of Cylinders/Rotors</b>                | --                  | <b>Mechanically Variable Compression Ratio Indicator</b> | --                                  |
| <b>After Treatment Device(s) (ATD)</b>           |                     |                                                          |                                     |
| <b>Mfr After Treatment Device (ATD) Comments</b> | --                  |                                                          |                                     |
| <b>Direct Ozone Reduction (DOR) Device</b>       | --                  |                                                          |                                     |
| <b>Mfr Emission Control Device Comments</b>      | --                  |                                                          |                                     |

## Certification Summary Information Report

|                       |     |              |      |         |         |                              |                           |                          |                              |                       |
|-----------------------|-----|--------------|------|---------|---------|------------------------------|---------------------------|--------------------------|------------------------------|-----------------------|
| Test Group            |     | PRIVT00.0194 |      |         |         | Evaporative/Refueling Family |                           | --                       |                              |                       |
| Official Test Numbers |     |              |      |         |         |                              |                           |                          |                              |                       |
| Test Group Fuel       | FTP | US06         | SC03 | Cold CO | Highway | EPA City Litmus Value        | EPA City Litmus Threshold | EPA Highway Litmus Value | EPA Highway Litmus Threshold | CREE Weighting Factor |
| Electricity           | --  | --           | --   | --      | --      | --                           | --                        | --                       | --                           | --                    |

|                                    |     |      |      |
|------------------------------------|-----|------|------|
| SFTP LEV-III Official Test Numbers |     |      |      |
| Test Group Fuel                    | FTP | US06 | SC03 |
| Electricity                        | --  | --   | --   |

|                                        |              |              |
|----------------------------------------|--------------|--------------|
| Official Charge Depleting Test Numbers |              |              |
| Test Group Fuel                        | UDDS         | Highway      |
| Electricity                            | PRIV10077317 | PRIV10077318 |
| Electricity                            | PRIV10077400 | PRIV10077401 |
| Electricity                            | PRIV10077367 | PRIV10077368 |
| Electricity                            | PRIV10077398 | PRIV10077399 |
| Electricity                            | PRIV10077319 | PRIV10077320 |
| Electricity                            | PRIV10077381 | PRIV10077382 |
| Electricity                            | PRIV10077374 | PRIV10077377 |
| Electricity                            | PRIV10077384 | PRIV10077385 |

## Certification Summary Information Report

| Test Group                                        | PRIVT00.0194             | Evaporative/Refueling Family                 | --   |
|---------------------------------------------------|--------------------------|----------------------------------------------|------|
| Hybrid Electric Vehicle And Fuel Cell Information |                          |                                              |      |
| Rechargeable Energy Storage System                | Battery(s)               | Rechargeable Energy Storage System, if Other | --   |
| Battery Type                                      | Lithium Ion              | Number of Battery Packs                      | 1    |
| Total Voltage of Battery Packs                    | 400                      | Battery Energy Capacity                      | 360  |
| Battery Specific Energy                           | 169                      | Battery Charger Type                         | Both |
| Number of Capacitors                              | --                       | Capacitor Rating (In Farads)                 | --   |
| Mfr Capacitor Comments                            | --                       |                                              |      |
| Hydraulic System Description                      | --                       |                                              |      |
| Regenerative Braking Type                         | Electrical Regen Brake   |                                              |      |
| Regenerative Braking Source                       | Both                     | Driver Controlled Regenerative Braking       | Yes  |
| Mfr Regenerative Braking Description              | --                       |                                              |      |
| Drive Motor(s)/Generator(s)                       | 4                        |                                              |      |
| Motor/Generator Type 1                            | AC Induction             | Rated Motor/Generator Power                  | 162  |
| Motor/Generator Type 2                            | AC Induction             | Rated Motor/Generator Power                  | 163  |
| Motor/Generator Type 3                            | AC Induction             | Rated Motor/Generator Power                  | 162  |
| Motor/Generator Type 4                            | AC Induction             | Rated Motor/Generator Power                  | 163  |
| Mfr Fuel Cell Description                         | --                       |                                              |      |
| Fuel Cell On-Board H2 Storage Capacity (kg)       | --                       | Usable H2 Fill Capacity (kg)                 | --   |
| Mfr Hybrid Electric/ Electric Vehicle Comments    | ALL-PURPOSE AND CONSERVE |                                              |      |

## Certification Summary Information Report

| <b>Test Group</b>                            | PRIVT00.0194                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | --                      |      |   |                |             |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|------|---|----------------|-------------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Vehicle ID / Configuration</b>            | R1S0054R20AP / 0                                                                                                                                                        | <b>Manufacturer Vehicle Configuration Number</b>      | 0                       |      |   |                |             |  |  |
| <b>Original Test Group Name</b>              | PRIVT00.0194                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | --                      |      |   |                |             |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2023                                                                                                                                                                    |                                                       |                         |      |   |                |             |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Represented Test Vehicle Make</b>         | Rivian                                                                                                                                                                  | <b>Represented Test Vehicle Model</b>                 | R1S 20in                |      |   |                |             |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --                      |      |   |                |             |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table> | Drive Source and Fuel#                                | Drive Source            | Fuel | 1 | Electric Motor | Electricity |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                         |      |   |                |             |  |  |
| 1                                            | Electric Motor                                                                                                                                                          | Electricity                                           |                         |      |   |                |             |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                         |      |   |                |             |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --                      |      |   |                |             |  |  |
| <b>Fuel Cell Indicator</b>                   | No                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | Yes                     |      |   |                |             |  |  |
| <b>Rechargeable Energy Storage System</b>    | Battery(s)                                                                                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                      |      |   |                |             |  |  |
| <b>Off-board charge Capable Indicator</b>    | Yes                                                                                                                                                                     |                                                       |                         |      |   |                |             |  |  |
| <b>Odometer Correction -- Initial</b>        | 1                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1                       |      |   |                |             |  |  |
| <b>Odometer Correction Sign</b>              | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                   |                                                       |                         |      |   |                |             |  |  |
| <b>Engine Code</b>                           | 132X2110X2OS                                                                                                                                                            | <b>Rated Horsepower</b>                               | 872                     |      |   |                |             |  |  |
| <b>Displacement (liters)</b>                 | 99.999                                                                                                                                                                  |                                                       |                         |      |   |                |             |  |  |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                     | <b>Air Aspiration Method, if 'Other'</b>              | Electric                |      |   |                |             |  |  |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                      | <b>Air Aspiration Device Configuration</b>            | --                      |      |   |                |             |  |  |
| <b>Charge Air Cooler Type</b>                | --                                                                                                                                                                      | <b>Drive Mode While Testing</b>                       | Part-time 4-Wheel Drive |      |   |                |             |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)              |      |   |                |             |  |  |
| <b>Curb Weight (lbs)</b>                     | 6904                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 7000                    |      |   |                |             |  |  |
| <b>GVWR (lbs)</b>                            | --                                                                                                                                                                      | <b>N/V Ratio</b>                                      | 999.9                   |      |   |                |             |  |  |
| <b>Axle Ratio</b>                            | 9.99                                                                                                                                                                    |                                                       |                         |      |   |                |             |  |  |
| <b>Transmission Type</b>                     | Automatic                                                                                                                                                               | <b># of Transmission Gears</b>                        | 1                       |      |   |                |             |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No                      |      |   |                |             |  |  |

## Certification Summary Information Report

|                   |              |                                     |    |
|-------------------|--------------|-------------------------------------|----|
| <b>Test Group</b> | PRIVT00.0194 | <b>Evaporative/Refueling Family</b> | -- |
|-------------------|--------------|-------------------------------------|----|

**Dynamometer Coefficients:**

| Coefficient Category | Target Coefficients |             |                | Set Coefficients |             |                | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |
|----------------------|---------------------|-------------|----------------|------------------|-------------|----------------|-------------------------------------------------------------------------------|
|                      | A (lbf)             | B (lbf/mph) | C (lbf/mph**2) | A (lbf)          | B (lbf/mph) | C (lbf/mph**2) |                                                                               |
| City/Highway/Evap    | 63.11               | 0.2806      | 0.03086        | -5.27            | -0.0653     | 0.02988        | 20.6                                                                          |
| Cold CO              | 69.42               | 0.3087      | 0.03395        | -18.28           | -0.1658     | 0.03324        | N/A                                                                           |
| US06                 | 63.11               | 0.2806      | 0.03086        | -5.27            | -0.0653     | 0.02988        | N/A                                                                           |

|                                           |                                                                                                                                                   |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Emission Control Device Comments</b>   | Battery Electric Vehicle                                                                                                                          |
| <b>Manufacturer Test Vehicle Comments</b> | All-Purpose drive mode configuration N/V Ratio and Axle Ratio entered above are placeholders Actual Values: N/V Ratio: 128.75, Axle Ratio: 12.6:1 |

## Certification Summary Information Report

|                                                |                                        |                                       |                                             |
|------------------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------------|
| <b>Test Group</b>                              | PRIVT00.0194                           | <b>Evaporative/Refueling Family</b>   | --                                          |
| <b>Test #</b>                                  | <b>PRIV10077376</b>                    | <b>Test Procedure</b>                 | <b>2 - CVS 75 and later (w/o can. load)</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                     | <b>Test Fuel Type</b>                 | 62 - Electricity                            |
| <b>Test Date</b>                               | 09/21/2022                             | <b>Fuel</b>                           | Electricity                                 |
| <b>Fuel Batch ID</b>                           | --                                     | <b>Fuel Calibration Number</b>        | --                                          |
| <b>Vehicle Class</b>                           | MDPV (Federal Tier 2, GVWR 8501-10000) | <b>DF Type</b>                        | EPA Assigned                                |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                           |                                       |                                             |
| <b>E10 Evaporative Test Measurement Method</b> | --                                     |                                       |                                             |
| <b>Test Start Odometer Reading</b>             | 7243                                   | <b>Odometer Units</b>                 | M                                           |
| <b>4WD Test Dyno</b>                           | Yes                                    | <b>Diesel Adjustment Factor Usage</b> | --                                          |
| <b>State of Charge Delta</b>                   | Yes                                    |                                       |                                             |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)    | <b>Road Speed Fan Usage</b>           | Yes                                         |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|-----------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0                     | --                                                                     |
| <b>CO (Carbon Monoxide)</b>                               | 0                     | --                                                                     |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -1.94                 | --                                                                     |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -0.88                 | --                                                                     |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -3.24                 | --                                                                     |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 33.81                 | 99.6746525                                                             |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                     | --                                                                     |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                                     |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                                     |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                                     |

| Test Result Name                                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|--------------------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b>          | 0                     | 0                               |
| <b>Optional Carbon-Related Exhaust Emissions</b> | 0                     | 0                               |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 0                     | --                    |

## Manufacturer Test Comments

R1S - Drive Mode: All-Purpose with 20" Tires. Cycle 1: 379.58 Wh/mi, Cycle 2: 316.90 Wh/mi, Cycle 3: 359.43 Wh/mi, Cycle 4: 300.83 Wh/mi.

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                | Evaporative/Refueling Family |                  |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CO            | 0.0            | --                           | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CO            | 0.0            | --                           | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

|                                                |                                        |                                       |                  |
|------------------------------------------------|----------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                           | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077378</b>                    | <b>Test Procedure</b>                 | <b>3 - HWFE</b>  |
| <b>Exhaust Test # for this Evap Test</b>       | --                                     | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/21/2022                             | <b>Fuel</b>                           | Electricity      |
| <b>Fuel Batch ID</b>                           | --                                     | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | MDPV (Federal Tier 2, GVWR 8501-10000) | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                           |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                     |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 7243                                   | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                    | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                    |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)    | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|----------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0                     | --                                                                     |
| CO (Carbon Monoxide)                               | 0                     | --                                                                     |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -3.54                 | --                                                                     |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.39                 | --                                                                     |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -4.51                 | --                                                                     |
| MFR FE (Manufacturer Fuel Economy)                 | 37.32                 | 90.3001072                                                             |
| NOX (Nitrogen Oxide)                               | 0                     | --                                                                     |
| N2O (Nitrous Oxide)                                | 0                     | --                                                                     |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                                     |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                                     |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 0                     | 0                               |
| Optional Carbon-Related Exhaust Emissions | 0                     | 0                               |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

## Manufacturer Test Comments

R1S - Drive Mode: All-Purpose with 20" Tires. Cycle 1: 373.24 Wh/mi

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               | Evaporative/Refueling Family |     |                  |                          | --     |         |                     |          |           |
|----------------------|---------------|----------------------|---------------|------------------------------|-----|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result               | RAF | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CO            | 0.0                          | --  | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0                            | --  | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CO            | 0.0                          | --  | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0                            | --  | --               | --                       | 0      | --      | 0                   | --       | --        |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

|                                                |                                     |                                       |                  |
|------------------------------------------------|-------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                        | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077379</b>                 | <b>Test Procedure</b>                 | <b>90 - US06</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                  | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/20/2022                          | <b>Fuel</b>                           | N/A              |
| <b>Fuel Batch ID</b>                           | --                                  | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                        |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 7219                                | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                 | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                 |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|-----------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0                     | --                                                                     |
| <b>CO (Carbon Monoxide)</b>                               | 0                     | --                                                                     |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | 1.96                  | --                                                                     |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | 0.41                  | --                                                                     |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | 2.84                  | --                                                                     |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 48.85                 | 68.986694                                                              |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                     | --                                                                     |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                                     |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                                     |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                                     |

| Test Result Name                                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|--------------------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b>          | 0                     | --                              |
| <b>Optional Carbon-Related Exhaust Emissions</b> | 0                     | --                              |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 0                     | --                    |

## Manufacturer Test Comments

R1S - Drive Mode: All-Purpose with 20" Tires. Cycle 1 (City1): 454.01 Wh/mi, Cycle 2 (HWY): 493.53 Wh/mi, Cycle 3 (City2): 514.47 Wh/mi

## Certification Summary Information Report

|                                                |                                     |                                       |                  |
|------------------------------------------------|-------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                        | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077380</b>                 | <b>Test Procedure</b>                 | <b>95 - SC03</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                  | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/20/2022                          | <b>Fuel</b>                           | N/A              |
| <b>Fuel Batch ID</b>                           | --                                  | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                        |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 7235                                | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                 | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                 |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|----------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0                     | --                                                                     |
| CO (Carbon Monoxide)                               | 0                     | --                                                                     |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.78                 | --                                                                     |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.93                  | --                                                                     |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -1.17                 | --                                                                     |
| MFR FE (Manufacturer Fuel Economy)                 | 37.22                 | 90.542719                                                              |
| NOX (Nitrogen Oxide)                               | 0                     | --                                                                     |
| N2O (Nitrous Oxide)                                | 0                     | --                                                                     |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                                     |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                                     |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 0                     | --                              |
| Optional Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

## Manufacturer Test Comments

R1S - Drive Mode: All-Purpose with 20" Tires. Cycle 1: 372.19 Wh/mi

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>PRIV10077374</b>                      | <b>Test Procedure</b>                         | <b>81 - Charge Depleting UDDS</b> |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                  |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 09/15/2022                               | <b>Fuel</b>                                   | Electricity                       |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                       | <b>Fuel Calibration Number</b>                | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MDPV (Federal Tier 2, GVWR 8501-10000)   | <b>DF Type</b>                                | EPA Assigned                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FEV Michigan                             |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | --                                       |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6745                                     | <b>Odometer Units</b>                         | M                                 |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                      |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 149.95                            |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 398.48                                   | <b>Charge Depleting Range (Actual miles)</b>  | 398.48                            |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 398.48                                   |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                                        | <b>Transition Bag/Phase Number</b>            | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-0.14</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>0.03</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-0.01</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>31.61</td> </tr> </tbody> </table>   |                                          |                                               |                                   | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -0.14 | 3 | Drive Trace Energy Economy Rating | 0.03  | 4 | Drive Trace Inertia Work Ratio Rating | -0.01 | 5  | Manufacturer Fuel Economy | 31.61 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating | -0.14                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating        | 0.03                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating    | -0.01                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Manufacturer Fuel Economy                | 31.61                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-1.32</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.55</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-1.73</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>31.66</td> </tr> </tbody> </table> |                                          |                                               |                                   | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 6 | Carbon-Related Exhaust Emissions | 0 | 7 | Drive Trace Absolute Speed Change Rating | -1.32 | 8 | Drive Trace Energy Economy Rating | -0.55 | 9 | Drive Trace Inertia Work Ratio Rating | -1.73 | 10 | Manufacturer Fuel Economy | 31.66 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating | -1.32                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating        | -0.55                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating    | -1.73                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Manufacturer Fuel Economy                | 31.66                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |

## Certification Summary Information Report

| Test Group |  | PRIVT00.0194 |  | Evaporative/Refueling Family |  | -- |  |
|------------|--|--------------|--|------------------------------|--|----|--|
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## Certification Summary Information Report

| <b>Test Group</b>                                       | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Evaporative/Refueling Family</b>           | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|--|
| <b>Test #</b>                                           | <b>PRIV10077377</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Test Procedure</b>                         | <b>84 - Charge Depleting Highway</b> |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Exhaust Test # for this Evap Test</b>                | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Test Fuel Type</b>                         | 62 - Electricity                     |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Test Date</b>                                        | 09/15/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Fuel</b>                                   | Electricity                          |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Fuel Batch ID</b>                                    | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Fuel Calibration Number</b>                | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Vehicle Class</b>                                    | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DF Type</b>                                | EPA Assigned                         |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Verify Test Lab ID</b>                               | FEV Michigan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>E10 Evaporative Test Measurement Method</b>          | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Test Start Odometer Reading</b>                      | 6745                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Odometer Units</b>                         | M                                    |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>4WD Test Dyno</b>                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Diesel Adjustment Factor Usage</b>         | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>State of Charge Delta</b>                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>             | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Road Speed Fan Usage</b>                   | Yes                                  |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>PHEV/EV Charge Depleting Test Information</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Recharge Event Voltage</b>                           | 240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Recharge Event Energy (kiloWatt-hours)</b> | 149.95                               |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Charge Depleting Range (Calculated miles)</b>        | 340.91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Charge Depleting Range (Actual miles)</b>  | 340.91                               |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>All Electric Range Unadjusted (miles)</b>            | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Equivalent All Electric Range (miles)</b>            | 340.91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Number of Charge Depleting Bags/Phases Conducted</b> | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Transition Bag/Phase Number</b>            | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
|                                                         | <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-1.13</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.36</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-1.71</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>38.39</td> </tr> </tbody> </table>  | Charge Depleting Bag/Phase #                  | Test Result/Emission Name            | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -1.13 | 3 | Drive Trace Energy Economy Rating | -0.36 | 4 | Drive Trace Inertia Work Ratio Rating | -1.71 | 5  | Manufacturer Fuel Economy | 38.39 |  |
| Charge Depleting Bag/Phase #                            | Test Result/Emission Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 1                                                       | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                             |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 2                                                       | Drive Trace Absolute Speed Change Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1.13                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 3                                                       | Drive Trace Energy Economy Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -0.36                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 4                                                       | Drive Trace Inertia Work Ratio Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -1.71                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 5                                                       | Manufacturer Fuel Economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 38.39                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
|                                                         | <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-1.46</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.15</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-1.87</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>36.78</td> </tr> </tbody> </table> | Charge Depleting Bag/Phase #                  | Test Result/Emission Name            | Unrounded Test Result | 6 | Carbon-Related Exhaust Emissions | 0 | 7 | Drive Trace Absolute Speed Change Rating | -1.46 | 8 | Drive Trace Energy Economy Rating | -0.15 | 9 | Drive Trace Inertia Work Ratio Rating | -1.87 | 10 | Manufacturer Fuel Economy | 36.78 |  |
| Charge Depleting Bag/Phase #                            | Test Result/Emission Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 6                                                       | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                             |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 7                                                       | Drive Trace Absolute Speed Change Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1.46                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 8                                                       | Drive Trace Energy Economy Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -0.15                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 9                                                       | Drive Trace Inertia Work Ratio Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -1.87                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 10                                                      | Manufacturer Fuel Economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36.78                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Manufacturer Test Comments</b>                       | R1S - Drive Mode: All-Purpose with 20" Tires. Cycle 1: 383.88 Wh/mi, Cycle 2: 367.83 Wh/mi. MCT Energy: 128133.26 Wh                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                           |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>PRIV10077383</b>                      | <b>Test Procedure</b>                         | <b>86 - Charge Depleting 20 Degree F FTP</b> |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                             |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 09/28/2022                               | <b>Fuel</b>                                   | N/A                                          |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                       | <b>Fuel Calibration Number</b>                | --                                           |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | N/A                                      | <b>DF Type</b>                                | EPA Assigned                                 |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FEV Michigan                             |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | --                                       |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7528                                     | <b>Odometer Units</b>                         | M                                            |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                           |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                      |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                                          |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 149.95                                       |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 111.79                                   | <b>Charge Depleting Range (Actual miles)</b>  | 111.79                                       |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                           |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 111.79                                   |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                                        | <b>Transition Bag/Phase Number</b>            | --                                           |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                | Unrounded Test Result                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions         | 0                                             |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating | 1.25                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating        | 0.34                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating    | 1.63                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Manufacturer Fuel Economy                | 74.24                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-0.07</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.07</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-0.22</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>46.94</td> </tr> </tbody> </table> |                                          |                                               |                                              | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 6 | Carbon-Related Exhaust Emissions | 0 | 7 | Drive Trace Absolute Speed Change Rating | -0.07 | 8 | Drive Trace Energy Economy Rating | -0.07 | 9 | Drive Trace Inertia Work Ratio Rating | -0.22 | 10 | Manufacturer Fuel Economy | 46.94 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                | Unrounded Test Result                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions         | 0                                             |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating | -0.07                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating        | -0.07                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating    | -0.22                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Manufacturer Fuel Economy                | 46.94                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |

## Certification Summary Information Report

| Test Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PRIVT00.0194                                                                                                   | Evaporative/Refueling Family | -- |                              |                           |                       |    |                                  |   |    |                                          |       |    |                                   |       |    |                                       |       |    |                           |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------|----|------------------------------|---------------------------|-----------------------|----|----------------------------------|---|----|------------------------------------------|-------|----|-----------------------------------|-------|----|---------------------------------------|-------|----|---------------------------|-------|
| <table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.02</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>-0.16</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.16</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>53.75</td></tr></table> |                                                                                                                |                              |    | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 11 | Carbon-Related Exhaust Emissions | 0 | 12 | Drive Trace Absolute Speed Change Rating | -0.02 | 13 | Drive Trace Energy Economy Rating | -0.16 | 14 | Drive Trace Inertia Work Ratio Rating | -0.16 | 15 | Manufacturer Fuel Economy | 53.75 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Test Result/Emission Name                                                                                      | Unrounded Test Result        |    |                              |                           |                       |    |                                  |   |    |                                          |       |    |                                   |       |    |                                       |       |    |                           |       |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Carbon-Related Exhaust Emissions                                                                               | 0                            |    |                              |                           |                       |    |                                  |   |    |                                          |       |    |                                   |       |    |                                       |       |    |                           |       |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Drive Trace Absolute Speed Change Rating                                                                       | -0.02                        |    |                              |                           |                       |    |                                  |   |    |                                          |       |    |                                   |       |    |                                       |       |    |                           |       |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Drive Trace Energy Economy Rating                                                                              | -0.16                        |    |                              |                           |                       |    |                                  |   |    |                                          |       |    |                                   |       |    |                                       |       |    |                           |       |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Drive Trace Inertia Work Ratio Rating                                                                          | -0.16                        |    |                              |                           |                       |    |                                  |   |    |                                          |       |    |                                   |       |    |                                       |       |    |                           |       |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Manufacturer Fuel Economy                                                                                      | 53.75                        |    |                              |                           |                       |    |                                  |   |    |                                          |       |    |                                   |       |    |                                       |       |    |                           |       |
| Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | R1S - Drive Mode: All-Purpose with 20" Tires. Cycle 1: 742.40 Wh/mi, Cycle 3: 537.49 Wh/mi, CD: 469.372 Wh/mi. |                              |    |                              |                           |                       |    |                                  |   |    |                                          |       |    |                                   |       |    |                                       |       |    |                           |       |

## Certification Summary Information Report

| <b>Test Group</b>                            | PRIVT00.0194                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | --                      |      |   |                |             |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|------|---|----------------|-------------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Vehicle ID / Configuration</b>            | R1S0054R20C / 0                                                                                                                                                         | <b>Manufacturer Vehicle Configuration Number</b>      | 0                       |      |   |                |             |  |  |
| <b>Original Test Group Name</b>              | PRIVT00.0194                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | --                      |      |   |                |             |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2023                                                                                                                                                                    |                                                       |                         |      |   |                |             |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Represented Test Vehicle Make</b>         | Rivian                                                                                                                                                                  | <b>Represented Test Vehicle Model</b>                 | R1S 20in                |      |   |                |             |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --                      |      |   |                |             |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table> | Drive Source and Fuel#                                | Drive Source            | Fuel | 1 | Electric Motor | Electricity |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                         |      |   |                |             |  |  |
| 1                                            | Electric Motor                                                                                                                                                          | Electricity                                           |                         |      |   |                |             |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                         |      |   |                |             |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --                      |      |   |                |             |  |  |
| <b>Fuel Cell Indicator</b>                   | No                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | Yes                     |      |   |                |             |  |  |
| <b>Rechargeable Energy Storage System</b>    | Battery(s)                                                                                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                      |      |   |                |             |  |  |
| <b>Off-board charge Capable Indicator</b>    | Yes                                                                                                                                                                     |                                                       |                         |      |   |                |             |  |  |
| <b>Odometer Correction -- Initial</b>        | 1                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1                       |      |   |                |             |  |  |
| <b>Odometer Correction Sign</b>              | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                   |                                                       |                         |      |   |                |             |  |  |
| <b>Engine Code</b>                           | 132X2110X2OS                                                                                                                                                            | <b>Rated Horsepower</b>                               | 872                     |      |   |                |             |  |  |
| <b>Displacement (liters)</b>                 | 99.999                                                                                                                                                                  |                                                       |                         |      |   |                |             |  |  |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                     | <b>Air Aspiration Method, if 'Other'</b>              | Electric                |      |   |                |             |  |  |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                      | <b>Air Aspiration Device Configuration</b>            | --                      |      |   |                |             |  |  |
| <b>Charge Air Cooler Type</b>                | --                                                                                                                                                                      | <b>Drive Mode While Testing</b>                       | Part-time 4-Wheel Drive |      |   |                |             |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)              |      |   |                |             |  |  |
| <b>Curb Weight (lbs)</b>                     | 6904                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 7000                    |      |   |                |             |  |  |
| <b>GVWR (lbs)</b>                            | --                                                                                                                                                                      | <b>N/V Ratio</b>                                      | 999.9                   |      |   |                |             |  |  |
| <b>Axle Ratio</b>                            | 9.99                                                                                                                                                                    |                                                       |                         |      |   |                |             |  |  |
| <b>Transmission Type</b>                     | Automatic                                                                                                                                                               | <b># of Transmission Gears</b>                        | 1                       |      |   |                |             |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No                      |      |   |                |             |  |  |

## Certification Summary Information Report

|                   |              |                                     |    |
|-------------------|--------------|-------------------------------------|----|
| <b>Test Group</b> | PRIVT00.0194 | <b>Evaporative/Refueling Family</b> | -- |
|-------------------|--------------|-------------------------------------|----|

**Dynamometer Coefficients:**

| Coefficient Category | Target Coefficients |             |                | Set Coefficients |             |                | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |
|----------------------|---------------------|-------------|----------------|------------------|-------------|----------------|-------------------------------------------------------------------------------|
|                      | A (lbf)             | B (lbf/mph) | C (lbf/mph**2) | A (lbf)          | B (lbf/mph) | C (lbf/mph**2) |                                                                               |
| City/Highway/Evap    | 64.11               | 0.0519      | 0.03015        | -7.66            | 0.0958      | 0.02611        | 18.9                                                                          |
| Cold CO              | 70.52               | 0.0571      | 0.03317        | -9.29            | -0.2457     | 0.03118        | N/A                                                                           |
| US06                 | 64.11               | 0.0519      | 0.03015        | -7.66            | 0.0958      | 0.02611        | N/A                                                                           |

**Emission Control Device Comments**      Battery Electric Vehicle

**Manufacturer Test Vehicle Comments**      Conserve drive mode configuration N/V Ratio and Axle Ratio entered above are placeholders Actual Values: N/V Ratio: 128.75, Axle Ratio: 12.6:1

## Certification Summary Information Report

|                                                |                                        |                                       |                                             |
|------------------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------------|
| <b>Test Group</b>                              | PRIVT00.0194                           | <b>Evaporative/Refueling Family</b>   | --                                          |
| <b>Test #</b>                                  | <b>PRIV10077369</b>                    | <b>Test Procedure</b>                 | <b>2 - CVS 75 and later (w/o can. load)</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                     | <b>Test Fuel Type</b>                 | 62 - Electricity                            |
| <b>Test Date</b>                               | 09/17/2022                             | <b>Fuel</b>                           | Electricity                                 |
| <b>Fuel Batch ID</b>                           | --                                     | <b>Fuel Calibration Number</b>        | --                                          |
| <b>Vehicle Class</b>                           | MDPV (Federal Tier 2, GVWR 8501-10000) | <b>DF Type</b>                        | EPA Assigned                                |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                           |                                       |                                             |
| <b>E10 Evaporative Test Measurement Method</b> | --                                     |                                       |                                             |
| <b>Test Start Odometer Reading</b>             | 7165                                   | <b>Odometer Units</b>                 | M                                           |
| <b>4WD Test Dyno</b>                           | Yes                                    | <b>Diesel Adjustment Factor Usage</b> | --                                          |
| <b>State of Charge Delta</b>                   | Yes                                    |                                       |                                             |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)    | <b>Road Speed Fan Usage</b>           | Yes                                         |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|----------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0                     | --                                                                     |
| CO (Carbon Monoxide)                               | 0                     | --                                                                     |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.8                   | --                                                                     |
| DT-EER (Drive Trace Energy Economy Rating)         | 0.3                   | --                                                                     |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | 1.09                  | --                                                                     |
| MFR FE (Manufacturer Fuel Economy)                 | 30.91                 | 109.0262051                                                            |
| NOX (Nitrogen Oxide)                               | 0                     | --                                                                     |
| N2O (Nitrous Oxide)                                | 0                     | --                                                                     |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                                     |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                                     |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 0                     | 0                               |
| Optional Carbon-Related Exhaust Emissions | 0                     | 0                               |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

## Manufacturer Test Comments

R1S - Drive Mode: Conserve with 20" Tires. Cycle 1: 346.79 Wh/mi, Cycle 2: 283.23 Wh/mi, Cycle 3: 329.02 Wh/mi, Cycle 4: 281.36 Wh/mi.

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               | Evaporative/Refueling Family |     |                  |                          | --     |         |                     |          |           |
|----------------------|---------------|----------------------|---------------|------------------------------|-----|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result               | RAF | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CO            | 0.0                          | --  | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0                            | --  | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CO            | 0.0                          | --  | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0                            | --  | --               | --                       | 0      | --      | 0                   | --       | --        |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

|                                                |                                        |                                       |                  |
|------------------------------------------------|----------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                           | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077371</b>                    | <b>Test Procedure</b>                 | <b>3 - HWFE</b>  |
| <b>Exhaust Test # for this Evap Test</b>       | --                                     | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/17/2022                             | <b>Fuel</b>                           | Electricity      |
| <b>Fuel Batch ID</b>                           | --                                     | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | MDPV (Federal Tier 2, GVWR 8501-10000) | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                           |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                     |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 7165                                   | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                    | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                    |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)    | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|-----------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0                     | --                                                                     |
| <b>CO (Carbon Monoxide)</b>                               | 0                     | --                                                                     |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | 1.15                  | --                                                                     |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | 0.25                  | --                                                                     |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | 1.09                  | --                                                                     |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 33.72                 | 99.940688                                                              |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                     | --                                                                     |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                                     |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                                     |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                                     |

| Test Result Name                                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|--------------------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b>          | 0                     | 0                               |
| <b>Optional Carbon-Related Exhaust Emissions</b> | 0                     | 0                               |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 0                     | --                    |

## Manufacturer Test Comments

R1S - Drive Mode: Conserve with 20" Tires. Cycle 1: 337.20 Wh/mi

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                | Evaporative/Refueling Family |                  |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CO            | 0.0            | --                           | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CO            | 0.0            | --                           | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

|                                                |                                     |                                       |                  |
|------------------------------------------------|-------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                        | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077372</b>                 | <b>Test Procedure</b>                 | <b>90 - US06</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                  | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/16/2022                          | <b>Fuel</b>                           | N/A              |
| <b>Fuel Batch ID</b>                           | --                                  | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                        |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 7142                                | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                 | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                 |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|----------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0                     | --                                                                     |
| CO (Carbon Monoxide)                               | 0                     | --                                                                     |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.74                 | --                                                                     |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.31                 | --                                                                     |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -2.46                 | --                                                                     |
| MFR FE (Manufacturer Fuel Economy)                 | 44.89                 | 75.0723992                                                             |
| NOX (Nitrogen Oxide)                               | 0                     | --                                                                     |
| N2O (Nitrous Oxide)                                | 0                     | --                                                                     |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                                     |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                                     |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 0                     | --                              |
| Optional Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

## Manufacturer Test Comments

R1S - Drive Mode: Conserve with 20" Tires. Cycle 1 (City1): 426.14 Wh/mi, Cycle 2 (HWY): 443.62 Wh/mi, Cycle 3 (City2): 574.10 Wh/mi

## Certification Summary Information Report

|                                                |                                     |                                       |                  |
|------------------------------------------------|-------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                        | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077373</b>                 | <b>Test Procedure</b>                 | <b>95 - SC03</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                  | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/17/2022                          | <b>Fuel</b>                           | N/A              |
| <b>Fuel Batch ID</b>                           | --                                  | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                        |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 7158                                | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                 | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                 |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|-----------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0                     | --                                                                     |
| <b>CO (Carbon Monoxide)</b>                               | 0                     | --                                                                     |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -0.34                 | --                                                                     |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -0.28                 | --                                                                     |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -1.25                 | --                                                                     |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 34.9                  | 96.5616046                                                             |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                     | --                                                                     |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                                     |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                                     |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                                     |

| Test Result Name                                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|--------------------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b>          | 0                     | --                              |
| <b>Optional Carbon-Related Exhaust Emissions</b> | 0                     | --                              |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 0                     | --                    |

## Manufacturer Test Comments

R1S - Drive Mode: Conserve with 20" Tires. Cycle 1: 348.95 Wh/mi

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>PRIV10077367</b>                      | <b>Test Procedure</b>                         | <b>81 - Charge Depleting UDDS</b> |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                  |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 09/13/2022                               | <b>Fuel</b>                                   | Electricity                       |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | --                                       | <b>Fuel Calibration Number</b>                | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MDPV (Federal Tier 2, GVWR 8501-10000)   | <b>DF Type</b>                                | EPA Assigned                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FEV Michigan                             |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                       |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6120                                     | <b>Odometer Units</b>                         | M                                 |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Yes                                      |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 149.94                            |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 444.85                                   | <b>Charge Depleting Range (Actual miles)</b>  | 444.85                            |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 444.85                                   |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4                                        | <b>Transition Bag/Phase Number</b>            | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-0.63</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.32</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-0.62</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>31.16</td> </tr> </tbody> </table> |                                          |                                               |                                   | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -0.63 | 3 | Drive Trace Energy Economy Rating | -0.32 | 4 | Drive Trace Inertia Work Ratio Rating | -0.62 | 5  | Manufacturer Fuel Economy | 31.16 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Drive Trace Absolute Speed Change Rating | -0.63                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Drive Trace Energy Economy Rating        | -0.32                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Drive Trace Inertia Work Ratio Rating    | -0.62                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Manufacturer Fuel Economy                | 31.16                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Drive Trace Absolute Speed Change Rating | 0.05                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Drive Trace Energy Economy Rating        | 0.245                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Drive Trace Inertia Work Ratio Rating    | 0.4                                           |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Manufacturer Fuel Economy                | 28.76                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |

## Certification Summary Information Report

| Test Group                   |                                          | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | Evaporative/Refueling Family                                                                                                                                    |                           | --                    |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
|------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|--------------------------|----------------------------------|---------|---------------------|------------------------------------------|-----------|----|-----------------------------------|--------|----|---------------------------------------|-------|----|---------------------------|-------|--|--|
|                              |                                          | <table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>-1.09</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>-0.225</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-1.76</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>28.56</td></tr></table> |               | Charge Depleting Bag/Phase #                                                                                                                                    | Test Result/Emission Name | Unrounded Test Result | 11                       | Carbon-Related Exhaust Emissions | 0       | 12                  | Drive Trace Absolute Speed Change Rating | -1.09     | 13 | Drive Trace Energy Economy Rating | -0.225 | 14 | Drive Trace Inertia Work Ratio Rating | -1.76 | 15 | Manufacturer Fuel Economy | 28.56 |  |  |
| Charge Depleting Bag/Phase # | Test Result/Emission Name                | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 11                           | Carbon-Related Exhaust Emissions         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 12                           | Drive Trace Absolute Speed Change Rating | -1.09                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 13                           | Drive Trace Energy Economy Rating        | -0.225                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 14                           | Drive Trace Inertia Work Ratio Rating    | -1.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 15                           | Manufacturer Fuel Economy                | 28.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
|                              |                                          | Charge Depleting Bag/Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
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| Charge Depleting Bag/Phase # | Test Result/Emission Name                | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 16                           | Carbon-Related Exhaust Emissions         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 17                           | Drive Trace Absolute Speed Change Rating | -1.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 18                           | Drive Trace Energy Economy Rating        | -1.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 19                           | Drive Trace Inertia Work Ratio Rating    | -1.91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| 20                           | Manufacturer Fuel Economy                | 29.34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
|                              |                                          | Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               | R1S - Drive Mode: Conserve with 20" Tires. Cycle 1: 311.61 Wh/mi, Cycle 2: 293.38 Wh/mi, Cycle 3: 285.60 Wh/mi, Cycle 4: 287.60 Wh/mi. MCT Energy: 128683.02 Wh |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
|                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| Certification Region         | Useful Life                              | Standard Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Emission Name | Rounded Result                                                                                                                                                  | RAF                       | NMOG/NM HC Ratio      | Diesel Adjustment Factor | Add DF                           | Mult DF | Certification Level | Standard                                 | Pass/Fail |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |        |    |                                       |       |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |        |    |                                       |       |    |                           |       |  |  |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PRIVT00.0194                                                                                                      | <b>Evaporative/Refueling Family</b>           | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>PRIV10077368</b>                                                                                               | <b>Test Procedure</b>                         | <b>84 - Charge Depleting Highway</b> |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                                                                                                | <b>Test Fuel Type</b>                         | 62 - Electricity                     |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 09/13/2022                                                                                                        | <b>Fuel</b>                                   | Electricity                          |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                                                                                                | <b>Fuel Calibration Number</b>                | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                            | <b>DF Type</b>                                | EPA Assigned                         |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FEV Michigan                                                                                                      |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | --                                                                                                                |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6120                                                                                                              | <b>Odometer Units</b>                         | M                                    |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                                                                                               | <b>Diesel Adjustment Factor Usage</b>         | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                                                                                               |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                               | <b>Road Speed Fan Usage</b>                   | Yes                                  |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                   |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 240                                                                                                               | <b>Recharge Event Energy (kiloWatt-hours)</b> | 149.94                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 392.16                                                                                                            | <b>Charge Depleting Range (Actual miles)</b>  | 392.16                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                                                                                                | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 392.16                                                                                                            |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                                                                                                                 | <b>Transition Bag/Phase Number</b>            | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                   |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-4.5</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.56</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-5.6</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>33.11</td> </tr> </tbody> </table>    |                                                                                                                   |                                               |                                      | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -4.5  | 3 | Drive Trace Energy Economy Rating | -0.56 | 4 | Drive Trace Inertia Work Ratio Rating | -5.6  | 5  | Manufacturer Fuel Economy | 33.11 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                                                                                         | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions                                                                                  | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating                                                                          | -4.5                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating                                                                                 | -0.56                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating                                                                             | -5.6                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Manufacturer Fuel Economy                                                                                         | 33.11                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                   |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                                                                                         | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions                                                                                  | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating                                                                          | -2.02                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating                                                                                 | -0.15                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating                                                                             | -2.68                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Manufacturer Fuel Economy                                                                                         | 32.52                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R1S - Drive Mode: Conserve with 20" Tires. Cycle 1: 331.07 Wh/mi, Cycle 2: 325.20 Wh/mi. MCT Energy: 128683.02 Wh |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                | Evaporative/Refueling Family |                  |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|------|---|---------------------------------------|------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>PRIV10077375</b>                      | <b>Test Procedure</b>                         | <b>86 - Charge Depleting 20 Degree F FTP</b> |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                             |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 09/26/2022                               | <b>Fuel</b>                                   | N/A                                          |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                       | <b>Fuel Calibration Number</b>                | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | N/A                                      | <b>DF Type</b>                                | EPA Assigned                                 |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | FEV Michigan                             |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | --                                       |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7408                                     | <b>Odometer Units</b>                         | M                                            |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                      |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                                          |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 149.94                                       |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 111.95                                   | <b>Charge Depleting Range (Actual miles)</b>  | 111.95                                       |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 111.95                                   |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3                                        | <b>Transition Bag/Phase Number</b>            | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Test Result/Emission Name                | Unrounded Test Result                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Carbon-Related Exhaust Emissions         | 0                                             |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Trace Absolute Speed Change Rating | 1.59                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Trace Energy Economy Rating        | 0.73                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Trace Inertia Work Ratio Rating    | 2.07                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Manufacturer Fuel Economy                | 45.45                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Test Result/Emission Name                | Unrounded Test Result                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Carbon-Related Exhaust Emissions         | 0                                             |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Trace Absolute Speed Change Rating | 1.68                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Trace Energy Economy Rating        | 0.47                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Trace Inertia Work Ratio Rating    | 2.87                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Manufacturer Fuel Economy                | 67.9                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |

## Certification Summary Information Report

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                             |                              |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|----|------------------------------|---------------------------|-----------------------|----|----------------------------------|---|----|------------------------------------------|------|----|-----------------------------------|------|----|---------------------------------------|------|----|---------------------------|-------|
| Test Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PRIVT00.0194                                                                                                | Evaporative/Refueling Family | -- |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| <table><tr><td>Charge Depleting Bag/Phase #</td><td>Test Result/Emission Name</td><td>Unrounded Test Result</td></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.27</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>0.66</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>2.04</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>51.95</td></tr></table> |                                                                                                             |                              |    | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 11 | Carbon-Related Exhaust Emissions | 0 | 12 | Drive Trace Absolute Speed Change Rating | 1.27 | 13 | Drive Trace Energy Economy Rating | 0.66 | 14 | Drive Trace Inertia Work Ratio Rating | 2.04 | 15 | Manufacturer Fuel Economy | 51.95 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test Result/Emission Name                                                                                   | Unrounded Test Result        |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Carbon-Related Exhaust Emissions                                                                            | 0                            |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Absolute Speed Change Rating                                                                    | 1.27                         |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Energy Economy Rating                                                                           | 0.66                         |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Inertia Work Ratio Rating                                                                       | 2.04                         |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Manufacturer Fuel Economy                                                                                   | 51.95                        |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R1S - Drive Mode: Conserve with 20" Tires. Cycle 1: 679.00 Wh/mi, Cycle 3: 519.47 Wh/mi, CD: 454.465 Wh/mi. |                              |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |

## Certification Summary Information Report

| <b>Test Group</b>                            | PRIVT00.0194                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | --                                                                                   |      |   |                |             |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------|------|---|----------------|-------------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Vehicle ID / Configuration</b>            | R1S0054R21AP / 0                                                                                                                                                        | <b>Manufacturer Vehicle Configuration Number</b>      | 0                                                                                    |      |   |                |             |  |  |
| <b>Original Test Group Name</b>              | PRIVT00.0194                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | --                                                                                   |      |   |                |             |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2023                                                                                                                                                                    |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Represented Test Vehicle Make</b>         | Rivian                                                                                                                                                                  | <b>Represented Test Vehicle Model</b>                 | R1S 21in                                                                             |      |   |                |             |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --                                                                                   |      |   |                |             |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                                                                                      |      |   |                |             |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table> | Drive Source and Fuel#                                | Drive Source                                                                         | Fuel | 1 | Electric Motor | Electricity |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                                                                                      |      |   |                |             |  |  |
| 1                                            | Electric Motor                                                                                                                                                          | Electricity                                           |                                                                                      |      |   |                |             |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --                                                                                   |      |   |                |             |  |  |
| <b>Fuel Cell Indicator</b>                   | No                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | Yes                                                                                  |      |   |                |             |  |  |
| <b>Rechargeable Energy Storage System</b>    | Battery(s)                                                                                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                                                                                   |      |   |                |             |  |  |
| <b>Off-board charge Capable Indicator</b>    | Yes                                                                                                                                                                     |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Odometer Correction -- Initial</b>        | 1                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1                                                                                    |      |   |                |             |  |  |
| <b>Odometer Correction Sign</b>              | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                         |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                   |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Engine Code</b>                           | 132X2110X2OS                                                                                                                                                            | <b>Rated Horsepower</b>                               | 872                                                                                  |      |   |                |             |  |  |
| <b>Displacement (liters)</b>                 | 99.999                                                                                                                                                                  |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                     | <b>Air Aspiration Method, if 'Other'</b>              | Electric                                                                             |      |   |                |             |  |  |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                      | <b>Air Aspiration Device Configuration</b>            | --                                                                                   |      |   |                |             |  |  |
| <b>Charge Air Cooler Type</b>                | --                                                                                                                                                                      | <b>Drive Mode While Testing</b>                       | Part-time 4-Wheel Drive                                                              |      |   |                |             |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)                                                                           |      |   |                |             |  |  |
| <b>Curb Weight (lbs)</b>                     | 6843                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 7000                                                                                 |      |   |                |             |  |  |
| <b>GVWR (lbs)</b>                            | --                                                                                                                                                                      | <b>N/V Ratio</b>                                      | 999.9                                                                                |      |   |                |             |  |  |
| <b>Axle Ratio</b>                            | 9.99                                                                                                                                                                    |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Transmission Type</b>                     | Automatic                                                                                                                                                               | <b># of Transmission Gears</b>                        | 1                                                                                    |      |   |                |             |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No                                                                                   |      |   |                |             |  |  |
| <b>Dynamometer Coefficients:</b>             |                                                                                                                                                                         |                                                       |                                                                                      |      |   |                |             |  |  |
|                                              | <b>Target Coefficients</b>                                                                                                                                              |                                                       |                                                                                      |      |   |                |             |  |  |
|                                              | <b>Set Coefficients</b>                                                                                                                                                 |                                                       |                                                                                      |      |   |                |             |  |  |
| <b>Coefficient Category</b>                  | <b>A (lbf)</b>                                                                                                                                                          | <b>B (lbf/mph)</b>                                    | <b>C (lbf/mph**2)</b>                                                                |      |   |                |             |  |  |
| <b>City/Highway/Evap</b>                     | 57.58                                                                                                                                                                   | 0.1422                                                | 0.03083                                                                              |      |   |                |             |  |  |
| <b>US06</b>                                  | 57.58                                                                                                                                                                   | 0.1422                                                | 0.03083                                                                              |      |   |                |             |  |  |
|                                              | <b>A (lbf)</b>                                                                                                                                                          | <b>B (lbf/mph)</b>                                    | <b>C (lbf/mph**2)</b>                                                                |      |   |                |             |  |  |
|                                              | 0.14                                                                                                                                                                    | -0.0239                                               | 0.02896                                                                              |      |   |                |             |  |  |
|                                              |                                                                                                                                                                         |                                                       | <b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b> |      |   |                |             |  |  |
|                                              |                                                                                                                                                                         |                                                       | 18.9                                                                                 |      |   |                |             |  |  |
|                                              |                                                                                                                                                                         |                                                       | N/A                                                                                  |      |   |                |             |  |  |

## Certification Summary Information Report

|                                           |                                                                                                           |                                     |    |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------|----|
| <b>Test Group</b>                         | PRIVT00.0194                                                                                              | <b>Evaporative/Refueling Family</b> | -- |
| <b>Emission Control Device Comments</b>   | Battery Electric Vehicle                                                                                  |                                     |    |
| <b>Manufacturer Test Vehicle Comments</b> | All-Purpose drive mode configuration N/V Ratio: 128.75, Axle Ratio: 12.6:1, data entered is a placeholder |                                     |    |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|------|---|---------------------------------------|------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>PRIV10077398</b>                      | <b>Test Procedure</b>                         | <b>81 - Charge Depleting UDDS</b> |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                  |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10/07/2022                               | <b>Fuel</b>                                   | Electricity                       |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                       | <b>Fuel Calibration Number</b>                | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MDPV (Federal Tier 2, GVWR 8501-10000)   | <b>DF Type</b>                                | EPA Assigned                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FEV Michigan                             |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                       |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9378                                     | <b>Odometer Units</b>                         | M                                 |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                      |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                               |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 151.36                            |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 436.46                                   | <b>Charge Depleting Range (Actual miles)</b>  | 436.46                            |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 436.46                                   |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4                                        | <b>Transition Bag/Phase Number</b>            | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating | 0.47                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating        | 0.16                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating    | 0.55                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer Fuel Economy                | 32.28                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating | 1.18                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating        | 0.59                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating    | 1.72                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Manufacturer Fuel Economy                | 29.04                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |

## Certification Summary Information Report

| Test Group |  | PRIVT00.0194 |  | Evaporative/Refueling Family |  | -- |  |
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## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PRIVT00.0194                                                                                                         | <b>Evaporative/Refueling Family</b>           | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|-------|---|---------------------------------------|------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>PRIV10077399</b>                                                                                                  | <b>Test Procedure</b>                         | <b>84 - Charge Depleting Highway</b> |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                                                                                                   | <b>Test Fuel Type</b>                         | 62 - Electricity                     |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10/07/2022                                                                                                           | <b>Fuel</b>                                   | Electricity                          |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                                                                   | <b>Fuel Calibration Number</b>                | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                               | <b>DF Type</b>                                | EPA Assigned                         |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FEV Michigan                                                                                                         |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                                                                                   |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9378                                                                                                                 | <b>Odometer Units</b>                         | M                                    |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                                                                                                  | <b>Diesel Adjustment Factor Usage</b>         | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                                                                                                  |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                                  | <b>Road Speed Fan Usage</b>                   | Yes                                  |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                      |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 240                                                                                                                  | <b>Recharge Event Energy (kiloWatt-hours)</b> | 151.36                               |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 376.54                                                                                                               | <b>Charge Depleting Range (Actual miles)</b>  | 376.54                               |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                                                                                                   | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 376.54                                                                                                               |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                                                                                                                    | <b>Transition Bag/Phase Number</b>            | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                      |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                                                                                            | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions                                                                                     | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating                                                                             | 1.1                                           |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating                                                                                    | -0.23                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating                                                                                | 1.55                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer Fuel Economy                                                                                            | 35.23                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                      |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                                                                                            | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions                                                                                     | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating                                                                             | 0.74                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating                                                                                    | 0.23                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating                                                                                | 0.74                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Manufacturer Fuel Economy                                                                                            | 33.54                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | R1S - Drive Mode: All-Purpose with 21" Tires. Cycle 1: 352.32 Wh/mi, Cycle 2: 335.41 Wh/mi. MCT Energy: 129476.30 Wh |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |

## Certification Summary Information Report

| <b>Test Group</b>                            | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|---------------------|-------------|-------------------------------------------------------------------------------|------------------|--|--|-------------------------------------------------------------------------------|----------------------|---------|-------------|----------------|---------|-------------|----------------|-------------------|-------|--------|--------|-------|--------|---------|------|------|-------|--------|--------|-------|--------|---------|-----|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Vehicle ID / Configuration</b>            | R1S0054R21C / 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Manufacturer Vehicle Configuration Number</b>      | 0                       |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Original Test Group Name</b>              | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Original Test Vehicle Model Year</b>      | 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Vehicle Model</b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Represented Test Vehicle Make</b>         | Rivian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Represented Test Vehicle Model</b>                 | R1S 21in                |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Leak Family Details</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Leak Family Name</b>                               | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Source and Fuel#                                | Drive Source            | Fuel                | 1           | Electric Motor                                                                | Electricity      |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fuel                                                  |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| 1                                            | Electric Motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Electricity                                           |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Fuel Cell Indicator</b>                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | Yes                     |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Rechargeable Energy Storage System</b>    | Battery(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Off-board charge Capable Indicator</b>    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Odometer Correction -- Initial</b>        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1                       |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Odometer Correction Sign</b>              | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Engine Code</b>                           | 132X2110X2OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Rated Horsepower</b>                               | 872                     |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Displacement (liters)</b>                 | 99.999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Air Aspiration Method, if 'Other'</b>              | Electric                |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Air Aspiration Device Configuration</b>            | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Charge Air Cooler Type</b>                | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Drive Mode While Testing</b>                       | Part-time 4-Wheel Drive |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)              |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Curb Weight (lbs)</b>                     | 6843                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 7000                    |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>GVWR (lbs)</b>                            | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>N/V Ratio</b>                                      | 999.9                   |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Axle Ratio</b>                            | 9.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Transmission Type</b>                     | Automatic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b># of Transmission Gears</b>                        | 1                       |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Creep Gear</b>                                     | No                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| <b>Dynamometer Coefficients:</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
|                                              | <table border="1"> <thead> <tr> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>Coefficient Category</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> </thead> <tbody> <tr> <td>City/Highway/Evap</td> <td>54.76</td> <td>0.0623</td> <td>0.0264</td> <td>-5.23</td> <td>0.2694</td> <td>0.02135</td> <td>16.5</td> </tr> <tr> <td>US06</td> <td>54.76</td> <td>0.0623</td> <td>0.0264</td> <td>-5.23</td> <td>0.2694</td> <td>0.02135</td> <td>N/A</td> </tr> </tbody> </table> |                                                       |                         | Target Coefficients |             |                                                                               | Set Coefficients |  |  | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients | Coefficient Category | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | City/Highway/Evap | 54.76 | 0.0623 | 0.0264 | -5.23 | 0.2694 | 0.02135 | 16.5 | US06 | 54.76 | 0.0623 | 0.0264 | -5.23 | 0.2694 | 0.02135 | N/A |
| Target Coefficients                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       | Set Coefficients        |                     |             | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| Coefficient Category                         | A (lbf)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B (lbf/mph)                                           | C (lbf/mph**2)          | A (lbf)             | B (lbf/mph) |                                                                               | C (lbf/mph**2)   |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| City/Highway/Evap                            | 54.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.0623                                                | 0.0264                  | -5.23               | 0.2694      | 0.02135                                                                       | 16.5             |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |
| US06                                         | 54.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.0623                                                | 0.0264                  | -5.23               | 0.2694      | 0.02135                                                                       | N/A              |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |        |       |        |         |      |      |       |        |        |       |        |         |     |

## Certification Summary Information Report

|                                           |                                                                                                        |                                     |    |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------|----|
| <b>Test Group</b>                         | PRIVT00.0194                                                                                           | <b>Evaporative/Refueling Family</b> | -- |
| <b>Emission Control Device Comments</b>   | Battery Electric Vehicle                                                                               |                                     |    |
| <b>Manufacturer Test Vehicle Comments</b> | Conserve drive mode configuration N/V Ratio: 128.75, Axle Ratio: 12.6:1, data entered is a placeholder |                                     |    |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|------|---|---------------------------------------|------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>PRIV10077400</b>                      | <b>Test Procedure</b>                         | <b>81 - Charge Depleting UDDS</b> |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                  |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10/06/2022                               | <b>Fuel</b>                                   | Electricity                       |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                       | <b>Fuel Calibration Number</b>                | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MDPV (Federal Tier 2, GVWR 8501-10000)   | <b>DF Type</b>                                | EPA Assigned                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FEV Michigan                             |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                       |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9006                                     | <b>Odometer Units</b>                         | M                                 |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                      |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                               |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 150.64                            |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 496.29                                   | <b>Charge Depleting Range (Actual miles)</b>  | 496.29                            |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 496.29                                   |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4                                        | <b>Transition Bag/Phase Number</b>            | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>1.37</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>0.55</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>2.22</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>26.28</td> </tr> </tbody> </table>  |                                          |                                               |                                   | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | 1.37 | 3 | Drive Trace Energy Economy Rating | 0.55 | 4 | Drive Trace Inertia Work Ratio Rating | 2.22 | 5  | Manufacturer Fuel Economy | 26.28 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating | 1.37                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating        | 0.55                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating    | 2.22                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer Fuel Economy                | 26.28                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating | 1.13                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating        | 0.64                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating    | 1.43                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Manufacturer Fuel Economy                | 27.55                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |

## Certification Summary Information Report

| Test Group                   |                                          | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               | Evaporative/Refueling Family                                                                                                                                    |                           | --                    |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
|------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|--------------------------|----------------------------------|---------|---------------------|------------------------------------------|-----------|----|-----------------------------------|------|----|---------------------------------------|------|----|---------------------------|-------|--|--|--|--|
|                              |                                          | <table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>0.96</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>0.87</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.16</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>25.86</td></tr></table> |               | Charge Depleting Bag/Phase #                                                                                                                                    | Test Result/Emission Name | Unrounded Test Result | 11                       | Carbon-Related Exhaust Emissions | 0       | 12                  | Drive Trace Absolute Speed Change Rating | 0.96      | 13 | Drive Trace Energy Economy Rating | 0.87 | 14 | Drive Trace Inertia Work Ratio Rating | 1.16 | 15 | Manufacturer Fuel Economy | 25.86 |  |  |  |  |
| Charge Depleting Bag/Phase # | Test Result/Emission Name                | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 11                           | Carbon-Related Exhaust Emissions         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 12                           | Drive Trace Absolute Speed Change Rating | 0.96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 13                           | Drive Trace Energy Economy Rating        | 0.87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 14                           | Drive Trace Inertia Work Ratio Rating    | 1.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 15                           | Manufacturer Fuel Economy                | 25.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
|                              |                                          | Charge Depleting Bag/Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
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| Charge Depleting Bag/Phase # | Test Result/Emission Name                | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 16                           | Carbon-Related Exhaust Emissions         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 17                           | Drive Trace Absolute Speed Change Rating | 0.69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 18                           | Drive Trace Energy Economy Rating        | 0.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 19                           | Drive Trace Inertia Work Ratio Rating    | 0.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| 20                           | Manufacturer Fuel Economy                | 25.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
|                              |                                          | Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | R1S - Drive Mode: Conserve with 21" Tires. Cycle 1: 275.48 Wh/mi, Cycle 2: 262.77 Wh/mi, Cycle 3: 258.57 Wh/mi, Cycle 4: 257.45 Wh/mi. MCT Energy: 128961.76 Wh |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
|                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |                                                                                                                                                                 |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| Certification Region         | Useful Life                              | Standard Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Emission Name | Rounded Result                                                                                                                                                  | RAF                       | NMOG/NM HC Ratio      | Diesel Adjustment Factor | Add DF                           | Mult DF | Certification Level | Standard                                 | Pass/Fail |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CREE          | 0                                                                                                                                                               | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |  |  |

## Certification Summary Information Report

| <b>Test Group</b>                                       | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Evaporative/Refueling Family</b>           | --                                   |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|------|---|---------------------------------------|------|----|---------------------------|-------|--|--|
| <b>Test #</b>                                           | <b>PRIV10077401</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Test Procedure</b>                         | <b>84 - Charge Depleting Highway</b> |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Exhaust Test # for this Evap Test</b>                | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Test Fuel Type</b>                         | 62 - Electricity                     |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Test Date</b>                                        | 10/06/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Fuel</b>                                   | Electricity                          |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Fuel Batch ID</b>                                    | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Fuel Calibration Number</b>                | --                                   |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Vehicle Class</b>                                    | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>DF Type</b>                                | EPA Assigned                         |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Verify Test Lab ID</b>                               | FEV Michigan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>E10 Evaporative Test Measurement Method</b>          | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Test Start Odometer Reading</b>                      | 9006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Odometer Units</b>                         | M                                    |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>4WD Test Dyno</b>                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Diesel Adjustment Factor Usage</b>         | --                                   |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>State of Charge Delta</b>                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>             | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Road Speed Fan Usage</b>                   | Yes                                  |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>PHEV/EV Charge Depleting Test Information</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Recharge Event Voltage</b>                           | 240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Recharge Event Energy (kiloWatt-hours)</b> | 150.64                               |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Charge Depleting Range (Calculated miles)</b>        | 447.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Charge Depleting Range (Actual miles)</b>  | 447.53                               |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>All Electric Range Unadjusted (miles)</b>            | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                   |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Equivalent All Electric Range (miles)</b>            | 447.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Number of Charge Depleting Bags/Phases Conducted</b> | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Transition Bag/Phase Number</b>            | --                                   |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
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| Charge Depleting Bag/Phase #                            | Test Result/Emission Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unrounded Test Result                         |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 1                                                       | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                             |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 2                                                       | Drive Trace Absolute Speed Change Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.73                                          |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 3                                                       | Drive Trace Energy Economy Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.23                                          |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 4                                                       | Drive Trace Inertia Work Ratio Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.95                                          |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 5                                                       | Manufacturer Fuel Economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35.59                                         |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
|                                                         | <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr> </thead> <tbody> <tr> <td>6</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr> <tr> <td>7</td><td>Drive Trace Absolute Speed Change Rating</td><td>3.21</td></tr> <tr> <td>8</td><td>Drive Trace Energy Economy Rating</td><td>0.59</td></tr> <tr> <td>9</td><td>Drive Trace Inertia Work Ratio Rating</td><td>4.22</td></tr> <tr> <td>10</td><td>Manufacturer Fuel Economy</td><td>35.93</td></tr> </tbody> </table> | Charge Depleting Bag/Phase #                  | Test Result/Emission Name            | Unrounded Test Result | 6 | Carbon-Related Exhaust Emissions | 0 | 7 | Drive Trace Absolute Speed Change Rating | 3.21 | 8 | Drive Trace Energy Economy Rating | 0.59 | 9 | Drive Trace Inertia Work Ratio Rating | 4.22 | 10 | Manufacturer Fuel Economy | 35.93 |  |  |
| Charge Depleting Bag/Phase #                            | Test Result/Emission Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unrounded Test Result                         |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 6                                                       | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                             |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 7                                                       | Drive Trace Absolute Speed Change Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.21                                          |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 8                                                       | Drive Trace Energy Economy Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.59                                          |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 9                                                       | Drive Trace Inertia Work Ratio Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.22                                          |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| 10                                                      | Manufacturer Fuel Economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35.93                                         |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |
| <b>Manufacturer Test Comments</b>                       | R1S - Drive Mode: Conserve with 21" Tires. Cycle 1: 291.44 Wh/mi, Cycle 2: 284.89 Wh/mi. MCT Energy: 128961.76 Wh                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                                      |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |  |  |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |

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## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>PRIV10077381</b>                      | <b>Test Procedure</b>                         | <b>81 - Charge Depleting UDDS</b> |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                  |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 09/09/2022                               | <b>Fuel</b>                                   | Electricity                       |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                       | <b>Fuel Calibration Number</b>                | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MDPV (Federal Tier 2, GVWR 8501-10000)   | <b>DF Type</b>                                | EPA Assigned                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FEV Michigan                             |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | --                                       |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5482                                     | <b>Odometer Units</b>                         | M                                 |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                      |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.34                            |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 419.01                                   | <b>Charge Depleting Range (Actual miles)</b>  | 419.01                            |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 419.01                                   |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                                        | <b>Transition Bag/Phase Number</b>            | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-2.04</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>-1.84</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-3.45</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>33.17</td> </tr> </tbody> </table>  |                                          |                                               |                                   | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -2.04 | 3 | Drive Trace Energy Economy Rating | -1.84 | 4 | Drive Trace Inertia Work Ratio Rating | -3.45 | 5  | Manufacturer Fuel Economy | 33.17 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating | -2.04                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating        | -1.84                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating    | -3.45                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Manufacturer Fuel Economy                | 33.17                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating | -1.44                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating        | -1.05                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating    | -2.31                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Manufacturer Fuel Economy                | 30.22                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194                                                                                                                                                       |               | Evaporative/Refueling Family                                                                                                                                                                                                                                                  |     | --                                                                                                                      |                          |        |         |                     |          |           |
|----------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
|                      |               | <div><div>Charge Depleting Bag/Phase #</div><div>11</div><div>12</div><div>13</div><div>14</div><div>15</div></div>                                                |               | <div><div>Test Result/Emission Name</div><div>Carbon-Related Exhaust Emissions</div><div>Drive Trace Absolute Speed Change Rating</div><div>Drive Trace Energy Economy Rating</div><div>Drive Trace Inertia Work Ratio Rating</div><div>Manufacturer Fuel Economy</div></div> |     | <div><div>Unrounded Test Result</div><div>0</div><div>-1.66</div><div>-1.37</div><div>-2.67</div><div>31.22</div></div> |                          |        |         |                     |          |           |
|                      |               | Charge Depleting Bag/Phase                                                                                                                                         |               |                                                                                                                                                                                                                                                                               |     |                                                                                                                         |                          |        |         |                     |          |           |
|                      |               | <div><div>Charge Depleting Bag/Phase #</div><div>16</div><div>17</div><div>18</div><div>19</div><div>20</div></div>                                                |               | <div><div>Test Result/Emission Name</div><div>Carbon-Related Exhaust Emissions</div><div>Drive Trace Absolute Speed Change Rating</div><div>Drive Trace Energy Economy Rating</div><div>Drive Trace Inertia Work Ratio Rating</div><div>Manufacturer Fuel Economy</div></div> |     | <div><div>Unrounded Test Result</div><div>0</div><div>-1.36</div><div>-1.2</div><div>-2.35</div><div>30.12</div></div>  |                          |        |         |                     |          |           |
|                      |               | Manufacturer Test Comments                                                                                                                                         |               |                                                                                                                                                                                                                                                                               |     |                                                                                                                         |                          |        |         |                     |          |           |
|                      |               | R1S - Drive Mode: All-Purpose with 22" Tires. Cycle 1: 331.70 Wh/mi, Cycle 2: 312.16 Wh/mi, Cycle 3: 302.25 Wh/mi, Cycle 4: 301.22 Wh/mi. MCT Energy: 128100.21 Wh |               |                                                                                                                                                                                                                                                                               |     |                                                                                                                         |                          |        |         |                     |          |           |
| Certification Region | Useful Life   | Standard Level                                                                                                                                                     | Emission Name | Rounded Result                                                                                                                                                                                                                                                                | RAF | NMOG/NM HC Ratio                                                                                                        | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0                                                                                                                                               | CREE          | 0                                                                                                                                                                                                                                                                             | --  | --                                                                                                                      | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0                                                                                                                                               | CREE          | 0                                                                                                                                                                                                                                                                             | --  | --                                                                                                                      | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0                                                                                                                                               | CREE          | 0                                                                                                                                                                                                                                                                             | --  | --                                                                                                                      | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0                                                                                                                                               | CREE          | 0                                                                                                                                                                                                                                                                             | --  | --                                                                                                                      | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV                                                                                                                                                     | CREE          | 0                                                                                                                                                                                                                                                                             | --  | --                                                                                                                      | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV                                                                                                                                                     | CREE          | 0                                                                                                                                                                                                                                                                             | --  | --                                                                                                                      | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV                                                                                                                                                     | CREE          | 0                                                                                                                                                                                                                                                                             | --  | --                                                                                                                      | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV                                                                                                                                                     | CREE          | 0                                                                                                                                                                                                                                                                             | --  | --                                                                                                                      | --                       | 0      | --      | 0                   | --       | --        |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PRIVT00.0194                                                                                                         | <b>Evaporative/Refueling Family</b>           | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>PRIV10077382</b>                                                                                                  | <b>Test Procedure</b>                         | <b>84 - Charge Depleting Highway</b> |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                                                                                                   | <b>Test Fuel Type</b>                         | 62 - Electricity                     |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 09/09/2022                                                                                                           | <b>Fuel</b>                                   | Electricity                          |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                                                                                                   | <b>Fuel Calibration Number</b>                | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                               | <b>DF Type</b>                                | EPA Assigned                         |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FEV Michigan                                                                                                         |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | --                                                                                                                   |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5482                                                                                                                 | <b>Odometer Units</b>                         | M                                    |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                                                                                                  | <b>Diesel Adjustment Factor Usage</b>         | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                                                                                                  |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                                  | <b>Road Speed Fan Usage</b>                   | Yes                                  |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                      |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 240                                                                                                                  | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.34                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 357.12                                                                                                               | <b>Charge Depleting Range (Actual miles)</b>  | 357.12                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                                                                                                   | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 357.12                                                                                                               |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                                                                                                                    | <b>Transition Bag/Phase Number</b>            | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                      |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-2.91</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.16</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-3.62</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>36.45</td> </tr> </tbody> </table>  |                                                                                                                      |                                               |                                      | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -2.91 | 3 | Drive Trace Energy Economy Rating | -0.16 | 4 | Drive Trace Inertia Work Ratio Rating | -3.62 | 5  | Manufacturer Fuel Economy | 36.45 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                                                                                            | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions                                                                                     | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating                                                                             | -2.91                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating                                                                                    | -0.16                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating                                                                                | -3.62                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Manufacturer Fuel Economy                                                                                            | 36.45                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                      |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-2.83</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.22</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-3.69</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>35.29</td> </tr> </tbody> </table> |                                                                                                                      |                                               |                                      | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 6 | Carbon-Related Exhaust Emissions | 0 | 7 | Drive Trace Absolute Speed Change Rating | -2.83 | 8 | Drive Trace Energy Economy Rating | -0.22 | 9 | Drive Trace Inertia Work Ratio Rating | -3.69 | 10 | Manufacturer Fuel Economy | 35.29 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                                                                                            | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions                                                                                     | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating                                                                             | -2.83                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating                                                                                    | -0.22                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating                                                                                | -3.69                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Manufacturer Fuel Economy                                                                                            | 35.29                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | R1S - Drive Mode: All-Purpose with 22" Tires. Cycle 1: 364.55 Wh/mi, Cycle 2: 352.86 Wh/mi. MCT Energy: 128100.21 Wh |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |

## Certification Summary Information Report

| <b>Test Group</b>                            | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|---------------------|-------------|-------------------------------------------------------------------------------|------------------|--|--|-------------------------------------------------------------------------------|----------------------|---------|-------------|----------------|---------|-------------|----------------|-------------------|-------|--------|---------|-------|--------|---------|----|------|-------|--------|---------|-------|--------|---------|-----|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Vehicle ID / Configuration</b>            | R1S0054R22C / 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Manufacturer Vehicle Configuration Number</b>      | 0                       |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Original Test Group Name</b>              | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Original Test Vehicle Model Year</b>      | 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Vehicle Model</b>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Represented Test Vehicle Make</b>         | Rivian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Represented Test Vehicle Model</b>                 | R1S 22in                |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Leak Family Details</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Leak Family Name</b>                               | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Drive Source and Fuel#                                | Drive Source            | Fuel                | 1           | Electric Motor                                                                | Electricity      |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fuel                                                  |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| 1                                            | Electric Motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Electricity                                           |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Fuel Cell Indicator</b>                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | Yes                     |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Rechargeable Energy Storage System</b>    | Battery(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Off-board charge Capable Indicator</b>    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Odometer Correction -- Initial</b>        | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1                       |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Odometer Correction Sign</b>              | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Engine Code</b>                           | 132X2110X2OS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Rated Horsepower</b>                               | 872                     |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Displacement (liters)</b>                 | 99.999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Air Aspiration Method, if 'Other'</b>              | Electric                |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Air Aspiration Device Configuration</b>            | --                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Charge Air Cooler Type</b>                | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Drive Mode While Testing</b>                       | Part-time 4-Wheel Drive |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)              |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Curb Weight (lbs)</b>                     | 6856                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 7000                    |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>GVWR (lbs)</b>                            | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>N/V Ratio</b>                                      | 999.9                   |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Axle Ratio</b>                            | 9.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Transmission Type</b>                     | Automatic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b># of Transmission Gears</b>                        | 1                       |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Creep Gear</b>                                     | No                      |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| <b>Dynamometer Coefficients:</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |                         |                     |             |                                                                               |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
|                                              | <table border="1"> <thead> <tr> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>Coefficient Category</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> </thead> <tbody> <tr> <td>City/Highway/Evap</td> <td>60.45</td> <td>0.1345</td> <td>0.02712</td> <td>-7.66</td> <td>0.0958</td> <td>0.02611</td> <td>18</td> </tr> <tr> <td>US06</td> <td>60.45</td> <td>0.1345</td> <td>0.02712</td> <td>-7.66</td> <td>0.0958</td> <td>0.02611</td> <td>N/A</td> </tr> </tbody> </table> |                                                       |                         | Target Coefficients |             |                                                                               | Set Coefficients |  |  | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients | Coefficient Category | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | City/Highway/Evap | 60.45 | 0.1345 | 0.02712 | -7.66 | 0.0958 | 0.02611 | 18 | US06 | 60.45 | 0.1345 | 0.02712 | -7.66 | 0.0958 | 0.02611 | N/A |
| Target Coefficients                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       | Set Coefficients        |                     |             | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |                  |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| Coefficient Category                         | A (lbf)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B (lbf/mph)                                           | C (lbf/mph**2)          | A (lbf)             | B (lbf/mph) |                                                                               | C (lbf/mph**2)   |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| City/Highway/Evap                            | 60.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.1345                                                | 0.02712                 | -7.66               | 0.0958      | 0.02611                                                                       | 18               |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |
| US06                                         | 60.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.1345                                                | 0.02712                 | -7.66               | 0.0958      | 0.02611                                                                       | N/A              |  |  |                                                                               |                      |         |             |                |         |             |                |                   |       |        |         |       |        |         |    |      |       |        |         |       |        |         |     |

## Certification Summary Information Report

|                                           |                                                                                                                                                |                                     |    |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----|
| <b>Test Group</b>                         | PRIVT00.0194                                                                                                                                   | <b>Evaporative/Refueling Family</b> | -- |
| <b>Emission Control Device Comments</b>   | Battery Electric Vehicle                                                                                                                       |                                     |    |
| <b>Manufacturer Test Vehicle Comments</b> | Conserve drive mode configuration N/V Ratio and Axle Ratio entered above are placeholders Actual Values: N/V Ratio: 128.75, Axle Ratio: 12.6:1 |                                     |    |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>PRIV10077384</b>                      | <b>Test Procedure</b>                         | <b>81 - Charge Depleting UDDS</b> |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                  |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 09/07/2022                               | <b>Fuel</b>                                   | Electricity                       |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | --                                       | <b>Fuel Calibration Number</b>                | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MDPV (Federal Tier 2, GVWR 8501-10000)   | <b>DF Type</b>                                | EPA Assigned                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FEV Michigan                             |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | --                                       |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4824                                     | <b>Odometer Units</b>                         | M                                 |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                      |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.35                            |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 466.2                                    | <b>Charge Depleting Range (Actual miles)</b>  | 466.2                             |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 466.2                                    |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                                        | <b>Transition Bag/Phase Number</b>            | --                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating | -1.53                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating        | -1.41                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating    | -2.46                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Manufacturer Fuel Economy                | 29                                            |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Absolute Speed Change Rating | -1.39                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Energy Economy Rating        | -1.05                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Drive Trace Inertia Work Ratio Rating    | -2.44                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Manufacturer Fuel Economy                | 27.68                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |

## Certification Summary Information Report

| Test Group                   |                                          | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               | Evaporative/Refueling Family |                           | --                    |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
|------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------|---------------------------|-----------------------|--------------------------|----------------------------------|---------|---------------------|------------------------------------------|-----------|----|-----------------------------------|-------|----|---------------------------------------|-------|----|---------------------------|-------|--|--|
|                              |                                          | <table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>0.73</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>1.46</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>2.18</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>27.7</td></tr></table>     |               | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 11                       | Carbon-Related Exhaust Emissions | 0       | 12                  | Drive Trace Absolute Speed Change Rating | 0.73      | 13 | Drive Trace Energy Economy Rating | 1.46  | 14 | Drive Trace Inertia Work Ratio Rating | 2.18  | 15 | Manufacturer Fuel Economy | 27.7  |  |  |
| Charge Depleting Bag/Phase # | Test Result/Emission Name                | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 11                           | Carbon-Related Exhaust Emissions         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 12                           | Drive Trace Absolute Speed Change Rating | 0.73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 13                           | Drive Trace Energy Economy Rating        | 1.46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 14                           | Drive Trace Inertia Work Ratio Rating    | 2.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 15                           | Manufacturer Fuel Economy                | 27.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| Charge Depleting Bag/Phase   |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
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| Charge Depleting Bag/Phase # | Test Result/Emission Name                | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 16                           | Carbon-Related Exhaust Emissions         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 17                           | Drive Trace Absolute Speed Change Rating | -0.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 18                           | Drive Trace Energy Economy Rating        | -0.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 19                           | Drive Trace Inertia Work Ratio Rating    | -1.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| 20                           | Manufacturer Fuel Economy                | 27.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| Manufacturer Test Comments   |                                          | R1S - Drive Mode: Conserve with 22" Tires. Cycle 1: 290.04 Wh/mi, Cycle 2: 276.84 Wh/mi, Cycle 3: 276.97 Wh/mi, Cycle 4: 272.31 Wh/mi. MCT Energy: 128495.33 Wh                                                                                                                                                                                                                                                                                                                                                         |               |                              |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| Certification Region         | Useful Life                              | Standard Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Emission Name | Rounded Result               | RAF                       | NMOG/NM HC Ratio      | Diesel Adjustment Factor | Add DF                           | Mult DF | Certification Level | Standard                                 | Pass/Fail |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CREE          | 0                            | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CREE          | 0                            | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CREE          | 0                            | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CREE          | 0                            | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CREE          | 0                            | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CREE          | 0                            | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CREE          | 0                            | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |       |    |                                       |       |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CREE          | 0                            | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |       |    |                                       |       |    |                           |       |  |  |

## Certification Summary Information Report

| <b>Test Group</b>                                       | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Evaporative/Refueling Family</b>           | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|-------|----|---------------------------|-------|--|
| <b>Test #</b>                                           | <b>PRIV10077385</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Test Procedure</b>                         | <b>84 - Charge Depleting Highway</b> |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Exhaust Test # for this Evap Test</b>                | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Test Fuel Type</b>                         | 62 - Electricity                     |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Test Date</b>                                        | 09/07/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Fuel</b>                                   | Electricity                          |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Fuel Batch ID</b>                                    | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Fuel Calibration Number</b>                | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Vehicle Class</b>                                    | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>DF Type</b>                                | EPA Assigned                         |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Verify Test Lab ID</b>                               | FEV Michigan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>E10 Evaporative Test Measurement Method</b>          | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Test Start Odometer Reading</b>                      | 4824                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Odometer Units</b>                         | M                                    |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>4WD Test Dyno</b>                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Diesel Adjustment Factor Usage</b>         | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>State of Charge Delta</b>                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>             | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Road Speed Fan Usage</b>                   | Yes                                  |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>PHEV/EV Charge Depleting Test Information</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Recharge Event Voltage</b>                           | 240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.35                               |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Charge Depleting Range (Calculated miles)</b>        | 413.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Charge Depleting Range (Actual miles)</b>  | 413.08                               |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>All Electric Range Unadjusted (miles)</b>            | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Equivalent All Electric Range (miles)</b>            | 413.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Number of Charge Depleting Bags/Phases Conducted</b> | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Transition Bag/Phase Number</b>            | --                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
|                                                         | <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-3.5</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>-1.11</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-4.28</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>31.33</td> </tr> </tbody> </table>  | Charge Depleting Bag/Phase #                  | Test Result/Emission Name            | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -3.5  | 3 | Drive Trace Energy Economy Rating | -1.11 | 4 | Drive Trace Inertia Work Ratio Rating | -4.28 | 5  | Manufacturer Fuel Economy | 31.33 |  |
| Charge Depleting Bag/Phase #                            | Test Result/Emission Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unrounded Test Result                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 1                                                       | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                             |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 2                                                       | Drive Trace Absolute Speed Change Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -3.5                                          |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 3                                                       | Drive Trace Energy Economy Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -1.11                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 4                                                       | Drive Trace Inertia Work Ratio Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -4.28                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 5                                                       | Manufacturer Fuel Economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 31.33                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
|                                                         | <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-1.28</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>0.09</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-1.74</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>30.88</td> </tr> </tbody> </table> | Charge Depleting Bag/Phase #                  | Test Result/Emission Name            | Unrounded Test Result | 6 | Carbon-Related Exhaust Emissions | 0 | 7 | Drive Trace Absolute Speed Change Rating | -1.28 | 8 | Drive Trace Energy Economy Rating | 0.09  | 9 | Drive Trace Inertia Work Ratio Rating | -1.74 | 10 | Manufacturer Fuel Economy | 30.88 |  |
| Charge Depleting Bag/Phase #                            | Test Result/Emission Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unrounded Test Result                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 6                                                       | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                             |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 7                                                       | Drive Trace Absolute Speed Change Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -1.28                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 8                                                       | Drive Trace Energy Economy Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.09                                          |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 9                                                       | Drive Trace Inertia Work Ratio Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -1.74                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| 10                                                      | Manufacturer Fuel Economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30.88                                         |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |
| <b>Manufacturer Test Comments</b>                       | R1S - Drive Mode: Conserve with 22" Tires. Cycle 1: 313.33 Wh/mi, Cycle 2: 308.79 Wh/mi. MCT Energy: 128495.33 Wh                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |                                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |       |    |                           |       |  |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                | Evaporative/Refueling Family |                  |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |

## Certification Summary Information Report

| <b>Test Group</b>                            | PRIVT00.0194                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | --                      |      |   |                |             |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|------|---|----------------|-------------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Vehicle ID / Configuration</b>            | R1T3804R21AP / 0                                                                                                                                                        | <b>Manufacturer Vehicle Configuration Number</b>      | 0                       |      |   |                |             |  |  |
| <b>Original Test Group Name</b>              | PRIVT00.0194                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | --                      |      |   |                |             |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2023                                                                                                                                                                    |                                                       |                         |      |   |                |             |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Represented Test Vehicle Make</b>         | Rivian                                                                                                                                                                  | <b>Represented Test Vehicle Model</b>                 | R1T 21                  |      |   |                |             |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --                      |      |   |                |             |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table> | Drive Source and Fuel#                                | Drive Source            | Fuel | 1 | Electric Motor | Electricity |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                         |      |   |                |             |  |  |
| 1                                            | Electric Motor                                                                                                                                                          | Electricity                                           |                         |      |   |                |             |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                         |      |   |                |             |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --                      |      |   |                |             |  |  |
| <b>Fuel Cell Indicator</b>                   | No                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | Yes                     |      |   |                |             |  |  |
| <b>Rechargeable Energy Storage System</b>    | Battery(s)                                                                                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                      |      |   |                |             |  |  |
| <b>Off-board charge Capable Indicator</b>    | Yes                                                                                                                                                                     |                                                       |                         |      |   |                |             |  |  |
| <b>Odometer Correction -- Initial</b>        | 1                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1                       |      |   |                |             |  |  |
| <b>Odometer Correction Sign</b>              | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                   |                                                       |                         |      |   |                |             |  |  |
| <b>Engine Code</b>                           | 132X2110X2OS                                                                                                                                                            | <b>Rated Horsepower</b>                               | 872                     |      |   |                |             |  |  |
| <b>Displacement (liters)</b>                 | 99.999                                                                                                                                                                  |                                                       |                         |      |   |                |             |  |  |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                     | <b>Air Aspiration Method, if 'Other'</b>              | Electric                |      |   |                |             |  |  |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                      | <b>Air Aspiration Device Configuration</b>            | --                      |      |   |                |             |  |  |
| <b>Charge Air Cooler Type</b>                | --                                                                                                                                                                      | <b>Drive Mode While Testing</b>                       | Part-time 4-Wheel Drive |      |   |                |             |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)              |      |   |                |             |  |  |
| <b>Curb Weight (lbs)</b>                     | 6916                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 7000                    |      |   |                |             |  |  |
| <b>GVWR (lbs)</b>                            | --                                                                                                                                                                      | <b>N/V Ratio</b>                                      | 999.9                   |      |   |                |             |  |  |
| <b>Axle Ratio</b>                            | 9.99                                                                                                                                                                    |                                                       |                         |      |   |                |             |  |  |
| <b>Transmission Type</b>                     | Automatic                                                                                                                                                               | <b># of Transmission Gears</b>                        | 1                       |      |   |                |             |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No                      |      |   |                |             |  |  |

## Certification Summary Information Report

|                   |              |                                     |    |
|-------------------|--------------|-------------------------------------|----|
| <b>Test Group</b> | PRIVT00.0194 | <b>Evaporative/Refueling Family</b> | -- |
|-------------------|--------------|-------------------------------------|----|

**Dynamometer Coefficients:**

| Coefficient Category | Target Coefficients |             |                | Set Coefficients |             |                | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |
|----------------------|---------------------|-------------|----------------|------------------|-------------|----------------|-------------------------------------------------------------------------------|
|                      | A (lbf)             | B (lbf/mph) | C (lbf/mph**2) | A (lbf)          | B (lbf/mph) | C (lbf/mph**2) |                                                                               |
| City/Highway/Evap    | 56.36               | 0.2295      | 0.02774        | -13.97           | 0.1958      | 0.02521        | 18.3                                                                          |
| Cold CO              | 62                  | 0.2525      | 0.03051        | -14.52           | -0.2968     | 0.03138        | N/A                                                                           |
| US06                 | 56.36               | 0.2295      | 0.02774        | -13.97           | 0.1958      | 0.02521        | N/A                                                                           |

|                                           |                                                                                                           |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Emission Control Device Comments</b>   | Battery Electric Vehicle                                                                                  |
| <b>Manufacturer Test Vehicle Comments</b> | All-Purpose drive mode configuration N/V Ratio: 128.75, Axle Ratio: 12.6:1, data entered is a placeholder |

## Certification Summary Information Report

|                                                |                                        |                                       |                                             |
|------------------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------------|
| <b>Test Group</b>                              | PRIVT00.0194                           | <b>Evaporative/Refueling Family</b>   | --                                          |
| <b>Test #</b>                                  | <b>PRIV10077321</b>                    | <b>Test Procedure</b>                 | <b>2 - CVS 75 and later (w/o can. load)</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                     | <b>Test Fuel Type</b>                 | 62 - Electricity                            |
| <b>Test Date</b>                               | 09/11/2022                             | <b>Fuel</b>                           | Electricity                                 |
| <b>Fuel Batch ID</b>                           | --                                     | <b>Fuel Calibration Number</b>        | --                                          |
| <b>Vehicle Class</b>                           | MDPV (Federal Tier 2, GVWR 8501-10000) | <b>DF Type</b>                        | EPA Assigned                                |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                           |                                       |                                             |
| <b>E10 Evaporative Test Measurement Method</b> | --                                     |                                       |                                             |
| <b>Test Start Odometer Reading</b>             | 3595                                   | <b>Odometer Units</b>                 | M                                           |
| <b>4WD Test Dyno</b>                           | Yes                                    | <b>Diesel Adjustment Factor Usage</b> | --                                          |
| <b>State of Charge Delta</b>                   | Yes                                    |                                       |                                             |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)    | <b>Road Speed Fan Usage</b>           | Yes                                         |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|-----------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0                     | --                                                                     |
| <b>CO (Carbon Monoxide)</b>                               | 0                     | --                                                                     |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -1.6                  | --                                                                     |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -1.01                 | --                                                                     |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -2.72                 | --                                                                     |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 28.54                 | 118.0798879                                                            |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                     | --                                                                     |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                                     |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                                     |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                                     |

| Test Result Name                                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|--------------------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b>          | 0                     | 0                               |
| <b>Optional Carbon-Related Exhaust Emissions</b> | 0                     | 0                               |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 0                     | --                    |

**Manufacturer Test Comments** R1T - Drive Mode: All-Purpose with 21" Tires. Cycle 1: 322.21 Wh/mi, Cycle 2: 260.28 Wh/mi, Cycle 3: 306.04 Wh/mi, Cycle 4: 252.70 Wh/mi.

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               | Evaporative/Refueling Family |     |                  |                          | --     |         |                     |          |           |
|----------------------|---------------|----------------------|---------------|------------------------------|-----|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result               | RAF | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CO            | 0.0                          | --  | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0                            | --  | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CO            | 0.0                          | --  | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0                            | --  | --               | --                       | 0      | --      | 0                   | --       | --        |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

|                                                |                                        |                                       |                  |
|------------------------------------------------|----------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                           | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077322</b>                    | <b>Test Procedure</b>                 | <b>3 - HWFE</b>  |
| <b>Exhaust Test # for this Evap Test</b>       | --                                     | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/11/2022                             | <b>Fuel</b>                           | Electricity      |
| <b>Fuel Batch ID</b>                           | --                                     | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | MDPV (Federal Tier 2, GVWR 8501-10000) | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                           |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                     |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 3595                                   | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                    | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                    |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)    | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|----------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0                     | --                                                                     |
| CO (Carbon Monoxide)                               | 0                     | --                                                                     |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -1.75                 | --                                                                     |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.65                 | --                                                                     |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -2.24                 | --                                                                     |
| MFR FE (Manufacturer Fuel Economy)                 | 32.14                 | 104.8537648                                                            |
| NOX (Nitrogen Oxide)                               | 0                     | --                                                                     |
| N2O (Nitrous Oxide)                                | 0                     | --                                                                     |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                                     |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                                     |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 0                     | 0                               |
| Optional Carbon-Related Exhaust Emissions | 0                     | 0                               |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

## Manufacturer Test Comments

R1T - Drive Mode: All-Purpose with 21" Tires. Cycle 1: 321.28 Wh/mi

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CO            | 0.0            | --  | --                           | --                       | 0      | --      | 0                   | 0        | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CO            | 0.0            | --  | --                           | --                       | 0      | --      | 0                   | 0        | Pass      |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

|                                                |                                     |                                       |                  |
|------------------------------------------------|-------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                        | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077326</b>                 | <b>Test Procedure</b>                 | <b>90 - US06</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                  | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/11/2022                          | <b>Fuel</b>                           | N/A              |
| <b>Fuel Batch ID</b>                           | --                                  | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                        |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 3620                                | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                 | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                 |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|-----------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0                     | --                                                                     |
| <b>CO (Carbon Monoxide)</b>                               | 0                     | --                                                                     |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -4.28                 | --                                                                     |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -2.17                 | --                                                                     |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -9.28                 | --                                                                     |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 41.68                 | 80.8541267                                                             |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                     | --                                                                     |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                                     |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                                     |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                                     |

| Test Result Name                                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|--------------------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b>          | 0                     | --                              |
| <b>Optional Carbon-Related Exhaust Emissions</b> | 0                     | --                              |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 0                     | --                    |

## Manufacturer Test Comments

R1T - Drive Mode: All-Purpose with 21" Tires. Cycle 1 (City1): 384.71 Wh/mi, Cycle 2 (HWY): 420.34 Wh/mi, Cycle 3 (City2): 456.45 Wh/mi

## Certification Summary Information Report

|                                                |                                     |                                       |                  |
|------------------------------------------------|-------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                        | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077328</b>                 | <b>Test Procedure</b>                 | <b>95 - SC03</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                  | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/12/2022                          | <b>Fuel</b>                           | N/A              |
| <b>Fuel Batch ID</b>                           | --                                  | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                        |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 3636                                | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                 | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                 |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|----------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0                     | --                                                                     |
| CO (Carbon Monoxide)                               | 0                     | --                                                                     |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -1.26                 | --                                                                     |
| DT-EER (Drive Trace Energy Economy Rating)         | -1.37                 | --                                                                     |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -2.23                 | --                                                                     |
| MFR FE (Manufacturer Fuel Economy)                 | 34.85                 | 96.7001435                                                             |
| NOX (Nitrogen Oxide)                               | 0                     | --                                                                     |
| N2O (Nitrous Oxide)                                | 0                     | --                                                                     |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                                     |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                                     |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 0                     | --                              |
| Optional Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

## Manufacturer Test Comments

R1T - Drive Mode: All-Purpose with 21" Tires. Cycle 1: 348.54 Wh/mi

## Certification Summary Information Report

| <b>Test Group</b>                                       | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Evaporative/Refueling Family</b>           | --                                |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|-------|---|---------------------------------------|--------|----|---------------------------|-------|--|
| <b>Test #</b>                                           | <b>PRIV10077317</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Test Procedure</b>                         | <b>81 - Charge Depleting UDDS</b> |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Exhaust Test # for this Evap Test</b>                | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Test Fuel Type</b>                         | 62 - Electricity                  |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Test Date</b>                                        | 09/28/2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Fuel</b>                                   | Electricity                       |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Fuel Batch ID</b>                                    | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Fuel Calibration Number</b>                | --                                |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Vehicle Class</b>                                    | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DF Type</b>                                | EPA Assigned                      |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Verify Test Lab ID</b>                               | FEV Michigan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>E10 Evaporative Test Measurement Method</b>          | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Test Start Odometer Reading</b>                      | 4678                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Odometer Units</b>                         | M                                 |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>4WD Test Dyno</b>                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Diesel Adjustment Factor Usage</b>         | --                                |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>State of Charge Delta</b>                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Drive Cycle Speed Tolerance Criteria</b>             | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Road Speed Fan Usage</b>                   | Yes                               |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>PHEV/EV Charge Depleting Test Information</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Recharge Event Voltage</b>                           | 240                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.67                            |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Charge Depleting Range (Calculated miles)</b>        | 475.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Charge Depleting Range (Actual miles)</b>  | 475.41                            |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>All Electric Range Unadjusted (miles)</b>            | --                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Equivalent All Electric Range (miles)</b>            | 475.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Number of Charge Depleting Bags/Phases Conducted</b> | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Transition Bag/Phase Number</b>            | --                                |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
|                                                         | <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-1.52</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>-1.46</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-1.875</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>27.15</td> </tr> </tbody> </table> | Charge Depleting Bag/Phase #                  | Test Result/Emission Name         | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -1.52 | 3 | Drive Trace Energy Economy Rating | -1.46 | 4 | Drive Trace Inertia Work Ratio Rating | -1.875 | 5  | Manufacturer Fuel Economy | 27.15 |  |
| Charge Depleting Bag/Phase #                            | Test Result/Emission Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                         |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 1                                                       | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                             |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 2                                                       | Drive Trace Absolute Speed Change Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -1.52                                         |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 3                                                       | Drive Trace Energy Economy Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -1.46                                         |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 4                                                       | Drive Trace Inertia Work Ratio Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -1.875                                        |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 5                                                       | Manufacturer Fuel Economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 27.15                                         |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
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| Charge Depleting Bag/Phase #                            | Test Result/Emission Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unrounded Test Result                         |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 6                                                       | Carbon-Related Exhaust Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                             |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 7                                                       | Drive Trace Absolute Speed Change Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.955                                         |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 8                                                       | Drive Trace Energy Economy Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.52                                          |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 9                                                       | Drive Trace Inertia Work Ratio Rating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.115                                         |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| 10                                                      | Manufacturer Fuel Economy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26.65                                         |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |
| <b>Charge Depleting Bag/Phase</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |                                   |                       |   |                                  |   |   |                                          |       |   |                                   |       |   |                                       |        |    |                           |       |  |

## Certification Summary Information Report

| Test Group |  | PRIVT00.0194 |  | Evaporative/Refueling Family |  | -- |  |
|------------|--|--------------|--|------------------------------|--|----|--|
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## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PRIVT00.0194                                                                                                        | <b>Evaporative/Refueling Family</b>           | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|-------|---|-----------------------------------|------|---|---------------------------------------|-------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>PRIV10077318</b>                                                                                                 | <b>Test Procedure</b>                         | <b>84 - Charge Depleting Highway</b> |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | --                                                                                                                  | <b>Test Fuel Type</b>                         | 62 - Electricity                     |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 09/28/2022                                                                                                          | <b>Fuel</b>                                   | Electricity                          |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | --                                                                                                                  | <b>Fuel Calibration Number</b>                | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                              | <b>DF Type</b>                                | EPA Assigned                         |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FEV Michigan                                                                                                        |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                                                                                                  |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4678                                                                                                                | <b>Odometer Units</b>                         | M                                    |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                                 | <b>Diesel Adjustment Factor Usage</b>         | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes                                                                                                                 |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                                 | <b>Road Speed Fan Usage</b>                   | Yes                                  |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                     |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 240                                                                                                                 | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.67                               |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 401.9                                                                                                               | <b>Charge Depleting Range (Actual miles)</b>  | 401.9                                |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | --                                                                                                                  | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 401.9                                                                                                               |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                                                                                                                   | <b>Transition Bag/Phase Number</b>            | --                                   |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                     |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>-0.27</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>0.53</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-0.54</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>32.19</td> </tr> </tbody> </table> |                                                                                                                     |                                               |                                      | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | -0.27 | 3 | Drive Trace Energy Economy Rating | 0.53 | 4 | Drive Trace Inertia Work Ratio Rating | -0.54 | 5  | Manufacturer Fuel Economy | 32.19 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test Result/Emission Name                                                                                           | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Carbon-Related Exhaust Emissions                                                                                    | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Absolute Speed Change Rating                                                                            | -0.27                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Energy Economy Rating                                                                                   | 0.53                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Inertia Work Ratio Rating                                                                               | -0.54                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Manufacturer Fuel Economy                                                                                           | 32.19                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                     |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>4.96</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>1.06</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>4.79</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>31.3</td> </tr> </tbody> </table>   |                                                                                                                     |                                               |                                      | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 6 | Carbon-Related Exhaust Emissions | 0 | 7 | Drive Trace Absolute Speed Change Rating | 4.96  | 8 | Drive Trace Energy Economy Rating | 1.06 | 9 | Drive Trace Inertia Work Ratio Rating | 4.79  | 10 | Manufacturer Fuel Economy | 31.3  |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test Result/Emission Name                                                                                           | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Carbon-Related Exhaust Emissions                                                                                    | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Absolute Speed Change Rating                                                                            | 4.96                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Energy Economy Rating                                                                                   | 1.06                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Inertia Work Ratio Rating                                                                               | 4.79                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer Fuel Economy                                                                                           | 31.3                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | R1T - Drive Mode: All-Purpose with 21" Tires. Cycle 1: 321.86 Wh/mi, Cycle 2: 312.98 Wh/mi. MCT Energy: 127572.7 Wh |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |       |   |                                   |      |   |                                       |       |    |                           |       |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                | Evaporative/Refueling Family |                  |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|-------|---|---------------------------------------|------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>PRIV10077331</b>                      | <b>Test Procedure</b>                         | <b>86 - Charge Depleting 20 Degree F FTP</b> |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                             |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 09/15/2022                               | <b>Fuel</b>                                   | N/A                                          |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | --                                       | <b>Fuel Calibration Number</b>                | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                      | <b>DF Type</b>                                | EPA Assigned                                 |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FEV Michigan                             |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | --                                       |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3683                                     | <b>Odometer Units</b>                         | M                                            |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes                                      |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                                          |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.67                                       |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111.65                                   | <b>Charge Depleting Range (Actual miles)</b>  | 111.65                                       |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 111.65                                   |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                                        | <b>Transition Bag/Phase Number</b>            | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.42</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.14</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.06</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>69.54</td> </tr> </tbody> </table>  |                                          |                                               |                                              | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | 0.42 | 3 | Drive Trace Energy Economy Rating | -0.14 | 4 | Drive Trace Inertia Work Ratio Rating | 0.06 | 5  | Manufacturer Fuel Economy | 69.54 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test Result/Emission Name                | Unrounded Test Result                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Carbon-Related Exhaust Emissions         | 0                                             |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Absolute Speed Change Rating | 0.42                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Energy Economy Rating        | -0.14                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Inertia Work Ratio Rating    | 0.06                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Manufacturer Fuel Economy                | 69.54                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.09</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>-0.13</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.04</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>44.39</td> </tr> </tbody> </table> |                                          |                                               |                                              | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 6 | Carbon-Related Exhaust Emissions | 0 | 7 | Drive Trace Absolute Speed Change Rating | 0.09 | 8 | Drive Trace Energy Economy Rating | -0.13 | 9 | Drive Trace Inertia Work Ratio Rating | 0.04 | 10 | Manufacturer Fuel Economy | 44.39 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test Result/Emission Name                | Unrounded Test Result                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Carbon-Related Exhaust Emissions         | 0                                             |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Absolute Speed Change Rating | 0.09                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Energy Economy Rating        | -0.13                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drive Trace Inertia Work Ratio Rating    | 0.04                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer Fuel Economy                | 44.39                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |       |   |                                       |      |    |                           |       |

## Certification Summary Information Report

| Test Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PRIVT00.0194                                                                                                 | Evaporative/Refueling Family | -- |                              |                           |                       |    |                                  |   |    |                                          |     |    |                                   |       |    |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------|----|------------------------------|---------------------------|-----------------------|----|----------------------------------|---|----|------------------------------------------|-----|----|-----------------------------------|-------|----|---------------------------------------|------|----|---------------------------|-------|
| <table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>0.5</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>-0.17</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>0.27</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>52.03</td></tr></table> |                                                                                                              |                              |    | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 11 | Carbon-Related Exhaust Emissions | 0 | 12 | Drive Trace Absolute Speed Change Rating | 0.5 | 13 | Drive Trace Energy Economy Rating | -0.17 | 14 | Drive Trace Inertia Work Ratio Rating | 0.27 | 15 | Manufacturer Fuel Economy | 52.03 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test Result/Emission Name                                                                                    | Unrounded Test Result        |    |                              |                           |                       |    |                                  |   |    |                                          |     |    |                                   |       |    |                                       |      |    |                           |       |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Carbon-Related Exhaust Emissions                                                                             | 0                            |    |                              |                           |                       |    |                                  |   |    |                                          |     |    |                                   |       |    |                                       |      |    |                           |       |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Absolute Speed Change Rating                                                                     | 0.5                          |    |                              |                           |                       |    |                                  |   |    |                                          |     |    |                                   |       |    |                                       |      |    |                           |       |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Energy Economy Rating                                                                            | -0.17                        |    |                              |                           |                       |    |                                  |   |    |                                          |     |    |                                   |       |    |                                       |      |    |                           |       |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Inertia Work Ratio Rating                                                                        | 0.27                         |    |                              |                           |                       |    |                                  |   |    |                                          |     |    |                                   |       |    |                                       |      |    |                           |       |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Manufacturer Fuel Economy                                                                                    | 52.03                        |    |                              |                           |                       |    |                                  |   |    |                                          |     |    |                                   |       |    |                                       |      |    |                           |       |
| Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R1T - Drive Mode: All-Purpose with 21" Tires. Cycle 1: 695.37 Wh/mi, Cycle 3: 520.30 Wh/mi, CD: 443.92 Wh/mi |                              |    |                              |                           |                       |    |                                  |   |    |                                          |     |    |                                   |       |    |                                       |      |    |                           |       |

## Certification Summary Information Report

| <b>Test Group</b>                            | PRIVT00.0194                                                                                                                                                            | <b>Evaporative/Refueling Family</b>                   | --                      |      |   |                |             |  |  |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|------|---|----------------|-------------|--|--|
| <b>Emission Data Vehicle Information</b>     |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Vehicle ID / Configuration</b>            | R1T3804R21C / 0                                                                                                                                                         | <b>Manufacturer Vehicle Configuration Number</b>      | 0                       |      |   |                |             |  |  |
| <b>Original Test Group Name</b>              | PRIVT00.0194                                                                                                                                                            | <b>Original Evaporative/Refueling Family</b>          | --                      |      |   |                |             |  |  |
| <b>Original Test Vehicle Model Year</b>      | 2023                                                                                                                                                                    |                                                       |                         |      |   |                |             |  |  |
| <b>Vehicle Model</b>                         |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Represented Test Vehicle Make</b>         | Rivian                                                                                                                                                                  | <b>Represented Test Vehicle Model</b>                 | R1T 21                  |      |   |                |             |  |  |
| <b>Leak Family Details</b>                   |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Leak Family Identifier</b>                | --                                                                                                                                                                      | <b>Leak Family Name</b>                               | --                      |      |   |                |             |  |  |
| <b>Drive Sources and Fuel System Details</b> |                                                                                                                                                                         |                                                       |                         |      |   |                |             |  |  |
|                                              | <table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table> | Drive Source and Fuel#                                | Drive Source            | Fuel | 1 | Electric Motor | Electricity |  |  |
| Drive Source and Fuel#                       | Drive Source                                                                                                                                                            | Fuel                                                  |                         |      |   |                |             |  |  |
| 1                                            | Electric Motor                                                                                                                                                          | Electricity                                           |                         |      |   |                |             |  |  |
| <b>Hybrid Indicator</b>                      | No                                                                                                                                                                      |                                                       |                         |      |   |                |             |  |  |
| <b>Multiple Fuel Storage</b>                 | --                                                                                                                                                                      | <b>Multiple Fuel Combustion</b>                       | --                      |      |   |                |             |  |  |
| <b>Fuel Cell Indicator</b>                   | No                                                                                                                                                                      | <b>Rechargeable Energy Storage System Indicator</b>   | Yes                     |      |   |                |             |  |  |
| <b>Rechargeable Energy Storage System</b>    | Battery(s)                                                                                                                                                              | <b>Rechargeable Energy Storage System, if 'Other'</b> | --                      |      |   |                |             |  |  |
| <b>Off-board charge Capable Indicator</b>    | Yes                                                                                                                                                                     |                                                       |                         |      |   |                |             |  |  |
| <b>Odometer Correction -- Initial</b>        | 1                                                                                                                                                                       | <b>Odometer Correction Factor</b>                     | 1                       |      |   |                |             |  |  |
| <b>Odometer Correction Sign</b>              | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles                                                                         |                                                       |                         |      |   |                |             |  |  |
| <b>Odometer Correction Units</b>             | Miles                                                                                                                                                                   |                                                       |                         |      |   |                |             |  |  |
| <b>Engine Code</b>                           | 132X2110X2OS                                                                                                                                                            | <b>Rated Horsepower</b>                               | 872                     |      |   |                |             |  |  |
| <b>Displacement (liters)</b>                 | 99.999                                                                                                                                                                  |                                                       |                         |      |   |                |             |  |  |
| <b>Air Aspiration Method</b>                 | Naturally Aspirated                                                                                                                                                     | <b>Air Aspiration Method, if 'Other'</b>              | Electric                |      |   |                |             |  |  |
| <b>Number of Air Aspiration Devices</b>      | --                                                                                                                                                                      | <b>Air Aspiration Device Configuration</b>            | --                      |      |   |                |             |  |  |
| <b>Charge Air Cooler Type</b>                | --                                                                                                                                                                      | <b>Drive Mode While Testing</b>                       | Part-time 4-Wheel Drive |      |   |                |             |  |  |
| <b>Shift Indicator Light Usage</b>           | Not equipped                                                                                                                                                            | <b>Aged Emission Components</b>                       | 4,000 (mi)              |      |   |                |             |  |  |
| <b>Curb Weight (lbs)</b>                     | 6916                                                                                                                                                                    | <b>Equivalent Test Weight (pounds)</b>                | 7000                    |      |   |                |             |  |  |
| <b>GVWR (lbs)</b>                            | --                                                                                                                                                                      | <b>N/V Ratio</b>                                      | 999.9                   |      |   |                |             |  |  |
| <b>Axle Ratio</b>                            | 9.99                                                                                                                                                                    |                                                       |                         |      |   |                |             |  |  |
| <b>Transmission Type</b>                     | Automatic                                                                                                                                                               | <b># of Transmission Gears</b>                        | 1                       |      |   |                |             |  |  |
| <b>Transmission Lockup</b>                   | No                                                                                                                                                                      | <b>Creep Gear</b>                                     | No                      |      |   |                |             |  |  |

## Certification Summary Information Report

|                   |              |                                     |    |
|-------------------|--------------|-------------------------------------|----|
| <b>Test Group</b> | PRIVT00.0194 | <b>Evaporative/Refueling Family</b> | -- |
|-------------------|--------------|-------------------------------------|----|

**Dynamometer Coefficients:**

| Coefficient Category | Target Coefficients |             |                | Set Coefficients |             |                | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients |
|----------------------|---------------------|-------------|----------------|------------------|-------------|----------------|-------------------------------------------------------------------------------|
|                      | A (lbf)             | B (lbf/mph) | C (lbf/mph**2) | A (lbf)          | B (lbf/mph) | C (lbf/mph**2) |                                                                               |
| City/Highway/Evap    | 48.14               | 0.2372      | 0.02461        | -10.16           | 0.3177      | 0.02092        | 16.2                                                                          |
| Cold CO              | 52.95               | 0.2609      | 0.02707        | -13.38           | 0.0726      | 0.02454        | N/A                                                                           |
| US06                 | 48.14               | 0.2372      | 0.02461        | -10.16           | 0.3177      | 0.02092        | N/A                                                                           |

**Emission Control Device Comments**      Battery Electric Vehicle

**Manufacturer Test Vehicle Comments**      N/V Ratio and Axle Ratio entered above are placeholders Actual values: N/V Ratio: 128.75, Axle Ratio: 12.6:1 Conserve drive mode configuration

## Certification Summary Information Report

|                                                |                                        |                                       |                                             |
|------------------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------------|
| <b>Test Group</b>                              | PRIVT00.0194                           | <b>Evaporative/Refueling Family</b>   | --                                          |
| <b>Test #</b>                                  | <b>PRIV10077325</b>                    | <b>Test Procedure</b>                 | <b>2 - CVS 75 and later (w/o can. load)</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                     | <b>Test Fuel Type</b>                 | 62 - Electricity                            |
| <b>Test Date</b>                               | 09/10/2022                             | <b>Fuel</b>                           | Electricity                                 |
| <b>Fuel Batch ID</b>                           | --                                     | <b>Fuel Calibration Number</b>        | --                                          |
| <b>Vehicle Class</b>                           | MDPV (Federal Tier 2, GVWR 8501-10000) | <b>DF Type</b>                        | EPA Assigned                                |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                           |                                       |                                             |
| <b>E10 Evaporative Test Measurement Method</b> | --                                     |                                       |                                             |
| <b>Test Start Odometer Reading</b>             | 3553                                   | <b>Odometer Units</b>                 | M                                           |
| <b>4WD Test Dyno</b>                           | Yes                                    | <b>Diesel Adjustment Factor Usage</b> | --                                          |
| <b>State of Charge Delta</b>                   | Yes                                    |                                       |                                             |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)    | <b>Road Speed Fan Usage</b>           | Yes                                         |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|----------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0                     | --                                                                     |
| CO (Carbon Monoxide)                               | 0                     | --                                                                     |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.79                 | --                                                                     |
| DT-EER (Drive Trace Energy Economy Rating)         | -0.74                 | --                                                                     |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -1.06                 | --                                                                     |
| MFR FE (Manufacturer Fuel Economy)                 | 25.7                  | 131.1284047                                                            |
| NOX (Nitrogen Oxide)                               | 0                     | --                                                                     |
| N2O (Nitrous Oxide)                                | 0                     | --                                                                     |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                                     |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                                     |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 0                     | 0                               |
| Optional Carbon-Related Exhaust Emissions | 0                     | 0                               |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

## Manufacturer Test Comments

R1T - Drive Mode: Conserve with 21" Tires. Cycle 1: 285.36 Wh/mi, Cycle 2: 233.51 Wh/mi, Cycle 3: 275.96 Wh/mi, Cycle 4: 233.06 Wh/mi.

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                | Evaporative/Refueling Family |                  |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CO            | 0.0            | --                           | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CO            | 0.0            | --                           | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

|                                                |                                        |                                       |                  |
|------------------------------------------------|----------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                           | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077327</b>                    | <b>Test Procedure</b>                 | <b>3 - HWFE</b>  |
| <b>Exhaust Test # for this Evap Test</b>       | --                                     | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/10/2022                             | <b>Fuel</b>                           | Electricity      |
| <b>Fuel Batch ID</b>                           | --                                     | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | MDPV (Federal Tier 2, GVWR 8501-10000) | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                           |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                     |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 3553                                   | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                    | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                    |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec)    | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|-----------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0                     | --                                                                     |
| <b>CO (Carbon Monoxide)</b>                               | 0                     | --                                                                     |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -0.64                 | --                                                                     |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -0.32                 | --                                                                     |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -0.9                  | --                                                                     |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 28.21                 | 119.461184                                                             |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                     | --                                                                     |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                                     |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                                     |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                                     |

| Test Result Name                                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|--------------------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b>          | 0                     | 0                               |
| <b>Optional Carbon-Related Exhaust Emissions</b> | 0                     | 0                               |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 0                     | --                    |

## Manufacturer Test Comments

R1T - Drive Mode: Conserve with 21" Tires. Cycle 1: 282.10 Wh/mi

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                | Evaporative/Refueling Family |                  |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF                          | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CO            | 0.0            | --                           | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CO            | 0.0            | --                           | --               | --                       | 0      | --      | 0                   | 0        | Pass      |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --                           | --               | --                       | 0      | --      | 0                   | --       | --        |

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

## Certification Summary Information Report

|                                                |                                     |                                       |                  |
|------------------------------------------------|-------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                        | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077329</b>                 | <b>Test Procedure</b>                 | <b>90 - US06</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                  | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/10/2022                          | <b>Fuel</b>                           | N/A              |
| <b>Fuel Batch ID</b>                           | --                                  | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                        |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 3579                                | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                 | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                 |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                   | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|----------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| METHANE (CH4 - Methane)                            | 0                     | --                                                                     |
| CO (Carbon Monoxide)                               | 0                     | --                                                                     |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -4.02                 | --                                                                     |
| DT-EER (Drive Trace Energy Economy Rating)         | -2.5                  | --                                                                     |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating)    | -8.15                 | --                                                                     |
| MFR FE (Manufacturer Fuel Economy)                 | 37.96                 | 88.7776607                                                             |
| NOX (Nitrogen Oxide)                               | 0                     | --                                                                     |
| N2O (Nitrous Oxide)                                | 0                     | --                                                                     |
| HC-NM (Non-methane Hydrocarbon)                    | 0                     | --                                                                     |
| NMOG (Non-methane organic gases)                   | 0                     | --                                                                     |

| Test Result Name                          | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|-------------------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions          | 0                     | --                              |
| Optional Carbon-Related Exhaust Emissions | 0                     | --                              |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 0                     | --                    |

## Manufacturer Test Comments

R1T - Drive Mode: Conserve with 21" Tires. Cycle 1 (City1): 359.75 Wh/mi, Cycle 2 (HWY): 374.53 Wh/mi, Cycle 3 (City2): 494.80 Wh/mi

## Certification Summary Information Report

|                                                |                                     |                                       |                  |
|------------------------------------------------|-------------------------------------|---------------------------------------|------------------|
| <b>Test Group</b>                              | PRIVT00.0194                        | <b>Evaporative/Refueling Family</b>   | --               |
| <b>Test #</b>                                  | <b>PRIV10077330</b>                 | <b>Test Procedure</b>                 | <b>95 - SC03</b> |
| <b>Exhaust Test # for this Evap Test</b>       | --                                  | <b>Test Fuel Type</b>                 | 62 - Electricity |
| <b>Test Date</b>                               | 09/12/2022                          | <b>Fuel</b>                           | N/A              |
| <b>Fuel Batch ID</b>                           | --                                  | <b>Fuel Calibration Number</b>        | --               |
| <b>Vehicle Class</b>                           | N/A                                 | <b>DF Type</b>                        | EPA Assigned     |
| <b>Verify Test Lab ID</b>                      | FEV Michigan                        |                                       |                  |
| <b>E10 Evaporative Test Measurement Method</b> | --                                  |                                       |                  |
| <b>Test Start Odometer Reading</b>             | 3636                                | <b>Odometer Units</b>                 | M                |
| <b>4WD Test Dyno</b>                           | Yes                                 | <b>Diesel Adjustment Factor Usage</b> | --               |
| <b>State of Charge Delta</b>                   | Yes                                 |                                       |                  |
| <b>Drive Cycle Speed Tolerance Criteria</b>    | Used Part 86 (+/- 2 mph, +/- 1 sec) | <b>Road Speed Fan Usage</b>           | Yes              |

## Test Results

| Test Result Name                                          | Unrounded Test Result | Verify Calculated FE Equivalent Value<br>(kilowatt-hour per 100 miles) |
|-----------------------------------------------------------|-----------------------|------------------------------------------------------------------------|
| <b>METHANE (CH4 - Methane)</b>                            | 0                     | --                                                                     |
| <b>CO (Carbon Monoxide)</b>                               | 0                     | --                                                                     |
| <b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b> | -0.34                 | --                                                                     |
| <b>DT-EER (Drive Trace Energy Economy Rating)</b>         | -0.28                 | --                                                                     |
| <b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>    | -1.25                 | --                                                                     |
| <b>MFR FE (Manufacturer Fuel Economy)</b>                 | 29.41                 | 114.5868752                                                            |
| <b>NOX (Nitrogen Oxide)</b>                               | 0                     | --                                                                     |
| <b>N2O (Nitrous Oxide)</b>                                | 0                     | --                                                                     |
| <b>HC-NM (Non-methane Hydrocarbon)</b>                    | 0                     | --                                                                     |
| <b>NMOG (Non-methane organic gases)</b>                   | 0                     | --                                                                     |

| Test Result Name                                 | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|--------------------------------------------------|-----------------------|---------------------------------|
| <b>Carbon-Related Exhaust Emissions</b>          | 0                     | --                              |
| <b>Optional Carbon-Related Exhaust Emissions</b> | 0                     | --                              |

| Test Result Name      | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| <b>Carbon dioxide</b> | 0                     | --                    |

## Manufacturer Test Comments

R1T - Drive Mode: Conserve with 21" Tires. Cycle 1: 294.06 Wh/mi

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|------|---|---------------------------------------|------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>PRIV10077319</b>                      | <b>Test Procedure</b>                         | <b>81 - Charge Depleting UDDS</b> |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                  |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 09/27/2022                               | <b>Fuel</b>                                   | Electricity                       |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                       | <b>Fuel Calibration Number</b>                | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MDPV (Federal Tier 2, GVWR 8501-10000)   | <b>DF Type</b>                                | EPA Assigned                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FEV Michigan                             |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                       |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4303                                     | <b>Odometer Units</b>                         | M                                 |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                      |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                               |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.1                             |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 502.59                                   | <b>Charge Depleting Range (Actual miles)</b>  | 502.59                            |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 502.59                                   |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4                                        | <b>Transition Bag/Phase Number</b>            | --                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.57</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>0.55</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.59</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>24.8</td> </tr> </tbody> </table>   |                                          |                                               |                                   | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | 0.57 | 3 | Drive Trace Energy Economy Rating | 0.55 | 4 | Drive Trace Inertia Work Ratio Rating | 0.59 | 5  | Manufacturer Fuel Economy | 24.8  |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating | 0.57                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating        | 0.55                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating    | 0.59                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer Fuel Economy                | 24.8                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                | Unrounded Test Result                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions         | 0                                             |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating | 1.39                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating        | 1.08                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating    | 1.71                                          |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Manufacturer Fuel Economy                | 24.77                                         |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |

## Certification Summary Information Report

| Test Group                   |                                          | PRIVT00.0194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               | Evaporative/Refueling Family                                                                                                                                   |                           | --                    |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
|------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|--------------------------|----------------------------------|---------|---------------------|------------------------------------------|-----------|----|-----------------------------------|------|----|---------------------------------------|------|----|---------------------------|-------|--|--|
|                              |                                          | <table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.67</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>1.27</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>2.75</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>26.31</td></tr></table> |               | Charge Depleting Bag/Phase #                                                                                                                                   | Test Result/Emission Name | Unrounded Test Result | 11                       | Carbon-Related Exhaust Emissions | 0       | 12                  | Drive Trace Absolute Speed Change Rating | 1.67      | 13 | Drive Trace Energy Economy Rating | 1.27 | 14 | Drive Trace Inertia Work Ratio Rating | 2.75 | 15 | Manufacturer Fuel Economy | 26.31 |  |  |
| Charge Depleting Bag/Phase # | Test Result/Emission Name                | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 11                           | Carbon-Related Exhaust Emissions         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 12                           | Drive Trace Absolute Speed Change Rating | 1.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 13                           | Drive Trace Energy Economy Rating        | 1.27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 14                           | Drive Trace Inertia Work Ratio Rating    | 2.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 15                           | Manufacturer Fuel Economy                | 26.31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
|                              |                                          | Charge Depleting Bag/Phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
|                              |                                          | <table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>16</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>17</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.44</td></tr><tr><td>18</td><td>Drive Trace Energy Economy Rating</td><td>0.63</td></tr><tr><td>19</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.81</td></tr><tr><td>20</td><td>Manufacturer Fuel Economy</td><td>27.08</td></tr></table> |               | Charge Depleting Bag/Phase #                                                                                                                                   | Test Result/Emission Name | Unrounded Test Result | 16                       | Carbon-Related Exhaust Emissions | 0       | 17                  | Drive Trace Absolute Speed Change Rating | 1.44      | 18 | Drive Trace Energy Economy Rating | 0.63 | 19 | Drive Trace Inertia Work Ratio Rating | 1.81 | 20 | Manufacturer Fuel Economy | 27.08 |  |  |
| Charge Depleting Bag/Phase # | Test Result/Emission Name                | Unrounded Test Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 16                           | Carbon-Related Exhaust Emissions         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 17                           | Drive Trace Absolute Speed Change Rating | 1.44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 18                           | Drive Trace Energy Economy Rating        | 0.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 19                           | Drive Trace Inertia Work Ratio Rating    | 1.81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| 20                           | Manufacturer Fuel Economy                | 27.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
|                              |                                          | Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | R1T - Drive Mode: Conserve with 21" Tires. Cycle 1: 270.83 Wh/mi, Cycle 2: 263.07 Wh/mi, Cycle 3: 248.00 Wh/mi, Cycle 4: 247.73 Wh/mi. MCT Energy: 127264.5 Wh |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
|                              |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |                                                                                                                                                                |                           |                       |                          |                                  |         |                     |                                          |           |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| Certification Region         | Useful Life                              | Standard Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Emission Name | Rounded Result                                                                                                                                                 | RAF                       | NMOG/NM HC Ratio      | Diesel Adjustment Factor | Add DF                           | Mult DF | Certification Level | Standard                                 | Pass/Fail |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CREE          | 0                                                                                                                                                              | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CREE          | 0                                                                                                                                                              | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CREE          | 0                                                                                                                                                              | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| Fed                          | 150,000 miles                            | Federal Tier 3 Bin 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CREE          | 0                                                                                                                                                              | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CREE          | 0                                                                                                                                                              | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CREE          | 0                                                                                                                                                              | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CREE          | 0                                                                                                                                                              | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |
| CA                           | 120,000 miles                            | California ZEV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CREE          | 0                                                                                                                                                              | --                        | --                    | --                       | 0                                | --      | 0                   | --                                       | --        |    |                                   |      |    |                                       |      |    |                           |       |  |  |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PRIVT00.0194                                                                                                     | <b>Evaporative/Refueling Family</b>           | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|------|---|---------------------------------------|------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>PRIV10077320</b>                                                                                              | <b>Test Procedure</b>                         | <b>84 - Charge Depleting Highway</b> |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                                                                                               | <b>Test Fuel Type</b>                         | 62 - Electricity                     |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 09/27/2022                                                                                                       | <b>Fuel</b>                                   | Electricity                          |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                                                                                               | <b>Fuel Calibration Number</b>                | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MDPV (Federal Tier 2, GVWR 8501-10000)                                                                           | <b>DF Type</b>                                | EPA Assigned                         |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FEV Michigan                                                                                                     |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                                                                                               |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4303                                                                                                             | <b>Odometer Units</b>                         | M                                    |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                                                                                              | <b>Diesel Adjustment Factor Usage</b>         | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                                                                                              |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Used Part 86 (+/- 2 mph, +/- 1 sec)                                                                              | <b>Road Speed Fan Usage</b>                   | Yes                                  |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                  |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 240                                                                                                              | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.1                                |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 452.61                                                                                                           | <b>Charge Depleting Range (Actual miles)</b>  | 452.61                               |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                                                                                               | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 452.61                                                                                                           |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                                                                                                                | <b>Transition Bag/Phase Number</b>            | --                                   |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                  |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>1.34</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>1.02</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>1.52</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>28.79</td> </tr> </tbody> </table>  |                                                                                                                  |                                               |                                      | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 1 | Carbon-Related Exhaust Emissions | 0 | 2 | Drive Trace Absolute Speed Change Rating | 1.34 | 3 | Drive Trace Energy Economy Rating | 1.02 | 4 | Drive Trace Inertia Work Ratio Rating | 1.52 | 5  | Manufacturer Fuel Economy | 28.79 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                                                                                        | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions                                                                                 | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating                                                                         | 1.34                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating                                                                                | 1.02                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating                                                                            | 1.52                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer Fuel Economy                                                                                        | 28.79                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                  |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                                                                                        | Unrounded Test Result                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions                                                                                 | 0                                             |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating                                                                         | 2.24                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating                                                                                | 0.69                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating                                                                            | 3.15                                          |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Manufacturer Fuel Economy                                                                                        | 27.45                                         |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Manufacturer Test Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | R1T - Drive Mode: Conserve with 21" Tires. Cycle 1: 287.87 Wh/mi, Cycle 2: 274.49 Wh/mi. MCT Energy: 127264.5 Wh |                                               |                                      |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |

## Certification Summary Information Report

| Test Group           |               | PRIVT00.0194         |               |                |     | Evaporative/Refueling Family |                          |        |         | --                  |          |           |
|----------------------|---------------|----------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level       | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| Fed                  | 150,000 miles | Federal Tier 3 Bin 0 | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |
| CA                   | 120,000 miles | California ZEV       | CREE          | 0              | --  | --                           | --                       | 0      | --      | 0                   | --       | --        |

## Certification Summary Information Report

| <b>Test Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PRIVT00.0194                             | <b>Evaporative/Refueling Family</b>           | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------|---------------------------|-----------------------|---|----------------------------------|---|---|------------------------------------------|------|---|-----------------------------------|------|---|---------------------------------------|------|----|---------------------------|-------|
| <b>Test #</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>PRIV10077332</b>                      | <b>Test Procedure</b>                         | <b>86 - Charge Depleting 20 Degree F FTP</b> |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Exhaust Test # for this Evap Test</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | --                                       | <b>Test Fuel Type</b>                         | 62 - Electricity                             |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Date</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 09/17/2022                               | <b>Fuel</b>                                   | N/A                                          |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Fuel Batch ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | --                                       | <b>Fuel Calibration Number</b>                | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Vehicle Class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | N/A                                      | <b>DF Type</b>                                | EPA Assigned                                 |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Verify Test Lab ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FEV Michigan                             |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>E10 Evaporative Test Measurement Method</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | --                                       |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Test Start Odometer Reading</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3807                                     | <b>Odometer Units</b>                         | M                                            |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>4WD Test Dyno</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                      | <b>Diesel Adjustment Factor Usage</b>         | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>State of Charge Delta</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                      |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Drive Cycle Speed Tolerance Criteria</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Used Part 86 (+/- 2 mph, +/- 1 sec)      | <b>Road Speed Fan Usage</b>                   | Yes                                          |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>PHEV/EV Charge Depleting Test Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Recharge Event Voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 240                                      | <b>Recharge Event Energy (kiloWatt-hours)</b> | 148.1                                        |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Range (Calculated miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 111.73                                   | <b>Charge Depleting Range (Actual miles)</b>  | 111.73                                       |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>All Electric Range Unadjusted (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | --                                       | <b>Derived 5-Cycle Coefficient Model Year</b> | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Equivalent All Electric Range (miles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 111.73                                   |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Number of Charge Depleting Bags/Phases Conducted</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                                        | <b>Transition Bag/Phase Number</b>            | --                                           |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                | Unrounded Test Result                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions         | 0                                             |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating | 0.64                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating        | 0.3                                           |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating    | 0.96                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer Fuel Economy                | 43.84                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
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| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test Result/Emission Name                | Unrounded Test Result                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon-Related Exhaust Emissions         | 0                                             |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Absolute Speed Change Rating | 0.53                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Energy Economy Rating        | 0.05                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drive Trace Inertia Work Ratio Rating    | 0.58                                          |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Manufacturer Fuel Economy                | 49.43                                         |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |
| <b>Charge Depleting Bag/Phase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |                                               |                                              |                              |                           |                       |   |                                  |   |   |                                          |      |   |                                   |      |   |                                       |      |    |                           |       |

## Certification Summary Information Report

| Test Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PRIVT00.0194                                                                                                               | Evaporative/Refueling Family | -- |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------|----|------------------------------|---------------------------|-----------------------|----|----------------------------------|---|----|------------------------------------------|------|----|-----------------------------------|------|----|---------------------------------------|------|----|---------------------------|-------|
| <table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.41</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>0.84</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.38</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>66.14</td></tr></table> |                                                                                                                            |                              |    | Charge Depleting Bag/Phase # | Test Result/Emission Name | Unrounded Test Result | 11 | Carbon-Related Exhaust Emissions | 0 | 12 | Drive Trace Absolute Speed Change Rating | 1.41 | 13 | Drive Trace Energy Economy Rating | 0.84 | 14 | Drive Trace Inertia Work Ratio Rating | 1.38 | 15 | Manufacturer Fuel Economy | 66.14 |
| Charge Depleting Bag/Phase #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test Result/Emission Name                                                                                                  | Unrounded Test Result        |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Carbon-Related Exhaust Emissions                                                                                           | 0                            |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Absolute Speed Change Rating                                                                                   | 1.41                         |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Energy Economy Rating                                                                                          | 0.84                         |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drive Trace Inertia Work Ratio Rating                                                                                      | 1.38                         |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Manufacturer Fuel Economy                                                                                                  | 66.14                        |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| Manufacturer Test Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | R1T - Drive Mode: Conserve with 21" Tires. Cycle 1: 661.43 Wh/mi, Cycle 3: 494.35 Wh/mi, CD: Wh/mi, Cycle 4: 438.41 Wh/mi. |                              |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |
| Fuel Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                            |                              |    |                              |                           |                       |    |                                  |   |    |                                          |      |    |                                   |      |    |                                       |      |    |                           |       |

## Certification Summary Information Report

|                                |               |                                        |     |             |                                 |                                   |         |                                  |     |
|--------------------------------|---------------|----------------------------------------|-----|-------------|---------------------------------|-----------------------------------|---------|----------------------------------|-----|
| Test Group                     |               | PRIVT00.0194                           |     |             | Evaporative/Refueling Family    |                                   |         | --                               |     |
| Consolidated List of Standards |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Exhaust Standards              |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Cert Region                    |               | Federal                                |     |             | Cert/In-Use Code                |                                   |         | Cert                             |     |
| Vehicle Class                  |               | MDPV (Federal Tier 2, GVWR 8501-10000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 0             |     |
| Fuel                           |               | Electricity                            |     |             | Test Procedure                  |                                   |         | HWFE                             |     |
| Useful Life                    | Emission Name | Rounded Result                         | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                           | Std |
| 150,000 miles                  | CO            | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
| 150,000 miles                  | CREE          | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
|                                |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Cert Region                    |               | California + CAA Section 177 states    |     |             | Cert/In-Use Code                |                                   |         | Cert                             |     |
| Vehicle Class                  |               | MDPV (Federal Tier 2, GVWR 8501-10000) |     |             | Standard Level                  |                                   |         | California ZEV                   |     |
| Fuel                           |               | Electricity                            |     |             | Test Procedure                  |                                   |         | CVS 75 and later (w/o can. load) |     |
| Useful Life                    | Emission Name | Rounded Result                         | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                           | Std |
| 120,000 miles                  | CO            | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
| 120,000 miles                  | CREE          | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
|                                |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Cert Region                    |               | California + CAA Section 177 states    |     |             | Cert/In-Use Code                |                                   |         | Cert                             |     |
| Vehicle Class                  |               | MDPV (Federal Tier 2, GVWR 8501-10000) |     |             | Standard Level                  |                                   |         | California ZEV                   |     |
| Fuel                           |               | Electricity                            |     |             | Test Procedure                  |                                   |         | Charge Depleting UDDS            |     |
| Useful Life                    | Emission Name | Rounded Result                         | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                           | Std |
| 120,000 miles                  | CO            | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
| 120,000 miles                  | CREE          | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
|                                |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Cert Region                    |               | Federal                                |     |             | Cert/In-Use Code                |                                   |         | Cert                             |     |
| Vehicle Class                  |               | MDPV (Federal Tier 2, GVWR 8501-10000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 0             |     |
| Fuel                           |               | Electricity                            |     |             | Test Procedure                  |                                   |         | CVS 75 and later (w/o can. load) |     |
| Useful Life                    | Emission Name | Rounded Result                         | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                           | Std |
| 150,000 miles                  | CO            | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
| 150,000 miles                  | CREE          | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |

## Certification Summary Information Report

|               |               |                                        |     |             |                                 |                                   |         |                                  |     |
|---------------|---------------|----------------------------------------|-----|-------------|---------------------------------|-----------------------------------|---------|----------------------------------|-----|
| Test Group    |               | PRIVT00.0194                           |     |             | Evaporative/Refueling Family    |                                   |         | --                               |     |
|               |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Cert Region   |               | California + CAA Section 177 states    |     |             | Cert/In-Use Code                |                                   |         | Cert                             |     |
| Vehicle Class |               | MDPV (Federal Tier 2, GVWR 8501-10000) |     |             | Standard Level                  |                                   |         | California ZEV                   |     |
| Fuel          |               | Electricity                            |     |             | Test Procedure                  |                                   |         | Charge Depleting Highway         |     |
| Useful Life   | Emission Name | Rounded Result                         | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                           | Std |
| 120,000 miles | CO            | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
| 120,000 miles | CREE          | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
|               |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Cert Region   |               | Federal                                |     |             | Cert/In-Use Code                |                                   |         | Cert                             |     |
| Vehicle Class |               | MDPV (Federal Tier 2, GVWR 8501-10000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 0             |     |
| Fuel          |               | Electricity                            |     |             | Test Procedure                  |                                   |         | Charge Depleting Highway         |     |
| Useful Life   | Emission Name | Rounded Result                         | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                           | Std |
| 150,000 miles | CO            | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
| 150,000 miles | CREE          | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
|               |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Cert Region   |               | California + CAA Section 177 states    |     |             | Cert/In-Use Code                |                                   |         | Cert                             |     |
| Vehicle Class |               | MDPV (Federal Tier 2, GVWR 8501-10000) |     |             | Standard Level                  |                                   |         | California ZEV                   |     |
| Fuel          |               | Electricity                            |     |             | Test Procedure                  |                                   |         | Charge Depleting 20 Degree F FTP |     |
| Useful Life   | Emission Name | Rounded Result                         | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                           | Std |
| 120,000 miles | CO            | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
| 120,000 miles | CREE          | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
|               |               |                                        |     |             |                                 |                                   |         |                                  |     |
| Cert Region   |               | Federal                                |     |             | Cert/In-Use Code                |                                   |         | Cert                             |     |
| Vehicle Class |               | MDPV (Federal Tier 2, GVWR 8501-10000) |     |             | Standard Level                  |                                   |         | Federal Tier 3 Bin 0             |     |
| Fuel          |               | Electricity                            |     |             | Test Procedure                  |                                   |         | Charge Depleting 20 Degree F FTP |     |
| Useful Life   | Emission Name | Rounded Result                         | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF                           | Std |
| 150,000 miles | CO            | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |
| 150,000 miles | CREE          | --                                     | --  | --          | --                              | --                                | --      | 0                                | 0   |

## Certification Summary Information Report

|                      |                      |                                        |            |                    |                                        |                                          |                |                       |            |
|----------------------|----------------------|----------------------------------------|------------|--------------------|----------------------------------------|------------------------------------------|----------------|-----------------------|------------|
| <b>Test Group</b>    |                      | PRIVT00.0194                           |            |                    | <b>Evaporative/Refueling Family</b>    |                                          |                | --                    |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states    |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                  |            |
| <b>Vehicle Class</b> |                      | MDPV (Federal Tier 2, GVWR 8501-10000) |            |                    | <b>Standard Level</b>                  |                                          |                | California ZEV        |            |
| <b>Fuel</b>          |                      | Electricity                            |            |                    | <b>Test Procedure</b>                  |                                          |                | HWFE                  |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                  | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 120,000 miles        | CO                   | --                                     | --         | --                 | --                                     | --                                       | --             | 0                     | 0          |
| 120,000 miles        | CREE                 | --                                     | --         | --                 | --                                     | --                                       | --             | 0                     | 0          |
|                      |                      |                                        |            |                    |                                        |                                          |                |                       |            |
| <b>Cert Region</b>   |                      | Federal                                |            |                    | <b>Cert/In-Use Code</b>                |                                          |                | Cert                  |            |
| <b>Vehicle Class</b> |                      | MDPV (Federal Tier 2, GVWR 8501-10000) |            |                    | <b>Standard Level</b>                  |                                          |                | Federal Tier 3 Bin 0  |            |
| <b>Fuel</b>          |                      | Electricity                            |            |                    | <b>Test Procedure</b>                  |                                          |                | Charge Depleting UDDS |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>                  | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b> | <b>Add DF</b>         | <b>Std</b> |
| 150,000 miles        | CO                   | --                                     | --         | --                 | --                                     | --                                       | --             | 0                     | 0          |
| 150,000 miles        | CREE                 | --                                     | --         | --                 | --                                     | --                                       | --             | 0                     | 0          |

## Certification Summary Information Report

| Test Group                      |                                                                 | PRIVT00.0194 | Evaporative/Refueling Family |                                                            | -- |
|---------------------------------|-----------------------------------------------------------------|--------------|------------------------------|------------------------------------------------------------|----|
| Glossary                        |                                                                 |              |                              |                                                            |    |
| Useful Life                     |                                                                 |              |                              |                                                            |    |
| 4                               | 4,000 miles                                                     |              | 120                          | 120,000 miles                                              |    |
| 50                              | 50,000 miles                                                    |              | 150                          | 150,000 miles                                              |    |
| 100                             | 100,000 miles                                                   |              |                              |                                                            |    |
| Emission Name                   |                                                                 |              |                              |                                                            |    |
| HC-TOTAL                        | Total Hydrocarbon                                               |              | METHANOL                     | CH3OH - Methanol                                           |    |
| CO                              | Carbon Monoxide                                                 |              | N2O                          | Nitrous Oxide                                              |    |
| CO2                             | Carbon dioxide                                                  |              | SPITBACK                     | Spitback Hydrocarbon in grams                              |    |
| CREE                            | Carbon-Related Exhaust Emissions                                |              | AMP-HRS                      | Integrated Amp-hours                                       |    |
| OPT-CREE                        | Optional Carbon-Related Exhaust Emissions                       |              | START-SOC                    | System Start State of Charge Watt-hours                    |    |
| NOX                             | Nitrogen Oxide                                                  |              | END-SOC                      | System End State of Charge Watt-hours                      |    |
| PM                              | Particulate Matter                                              |              | ACT-DISTANCE                 | Actual Distance Driven (miles)                             |    |
| PM-COMP                         | SFTP Composite Particulate Matter                               |              | AS-VOLT                      | Average System Voltage                                     |    |
| HC-NM                           | Non-methane Hydrocarbon                                         |              | CO2 BAG 1                    | Bag 1 Carbon Dioxide                                       |    |
| OMHCE                           | Organic material Hydrocarbon Equivalent                         |              | CO2 BAG 2                    | Bag 2 Carbon Dioxide                                       |    |
| OMNMHCE                         | Organic material non-methane HC equivalent                      |              | CO2 BAG 3                    | Bag 3 Carbon Dioxide                                       |    |
| NMOG                            | Non-methane organic gases                                       |              | CO2 BAG 4                    | Bag 4 Carbon Dioxide                                       |    |
| HCHO                            | Formaldehyde                                                    |              | NMOG+NOX                     | Non-methane organic gases plus Nitrogen Oxides             |    |
| H3C2HO                          | Acetaldehyde                                                    |              | NMOG+NOX-COMP                | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |    |
| HC-NM+NOX                       | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 |              | DT-IWRR                      | Drive Trace Inertia Work Ratio Rating                      |    |
| HC-NM+NOX-COMP                  | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        |              | DT-ASCR                      | Drive Trace Absolute Speed Change Rating                   |    |
| CO-COMP                         | SFTP Composite Carbon Monoxide                                  |              | DT-EER                       | Drive Trace Energy Economy Rating                          |    |
| ETHANOL                         | C2H5OH - Ethanol                                                |              | COMB-CREE                    | Combined Carbon-Related Exhaust Emissions                  |    |
| FE BAG 1                        | Bag 1 Fuel Economy                                              |              | COMB-OPT-CREE                | Combined Optional Carbon-Related Exhaust Emissions         |    |
| FE BAG 2                        | Bag 2 Fuel Economy                                              |              | HC-TOTAL-EQUIV               | Total Hydrocarbon equivalent - Evap only                   |    |
| FE BAG 3                        | Bag 3 Fuel Economy                                              |              | METHANE-COMB                 | Combined CH4 for HD 2b/3 vehicles only                     |    |
| FE BAG 4                        | Bag 4 Fuel Economy                                              |              | N2O-COMB                     | Combined Nitrous Oxide for HD 2b/3 vehicles only           |    |
| MFR FE                          | Manufacturer Fuel Economy                                       |              | LEAK-DIA                     | Effective Leak Diameter (inches)                           |    |
| HC                              | Hydrocarbon for Running Loss and ORVR                           |              | LEAK-GAS CAP                 | Gas Cap Leakage (cc/min)                                   |    |
| METHANE                         | CH4 - Methane                                                   |              | CO2-COMB                     | Combined Carbon Dioxide for HD 2b/3 Vehicles Only          |    |
| Certification Region            |                                                                 |              |                              |                                                            |    |
| CA                              | California + CAA Section 177 states                             |              | FA                           | Federal                                                    |    |
| Exhaust Emission Standard Level |                                                                 |              |                              |                                                            |    |
| B1                              | Federal Tier 2 Bin 1                                            |              | L3ULEV340                    | California LEV-III ULEV340                                 |    |
| B2                              | Federal Tier 2 Bin 2                                            |              | L3ULEV250                    | California LEV-III ULEV250                                 |    |
| B3                              | Federal Tier 2 Bin 3                                            |              | L3ULEV200                    | California LEV-III ULEV200                                 |    |
| B4                              | Federal Tier 2 Bin 4                                            |              | L3SULEV170                   | California LEV-III SULEV170                                |    |
| B5                              | Federal Tier 2 Bin 5                                            |              | L3SULEV150                   | California LEV-III SULEV150                                |    |

## Certification Summary Information Report

| Test Group                    |                                                                   | PRIVT00.0194 | Evaporative/Refueling Family                             |                                                      | -- |
|-------------------------------|-------------------------------------------------------------------|--------------|----------------------------------------------------------|------------------------------------------------------|----|
| B6                            | Federal Tier 2 Bin 6                                              |              | L3LEV630                                                 | California LEV-III LEV630                            |    |
| B7                            | Federal Tier 2 Bin 7                                              |              | L3ULEV570                                                | California LEV-III ULEV570                           |    |
| B8                            | Federal Tier 2 Bin 8                                              |              | L3ULEV400                                                | California LEV-III ULEV400                           |    |
| B9                            | Federal Tier 2 Bin 9                                              |              | L3ULEV270                                                | California LEV-III ULEV270                           |    |
| B10                           | Federal Tier 2 Bin 10                                             |              | L3SULEV230                                               | California LEV-III SULEV230                          |    |
| B11                           | Federal Tier 2 Bin 11                                             |              | L3SULEV200                                               | California LEV-III SULEV200                          |    |
| HDV1                          | HDV1 (Federal HD chassis Class 2b GVW 8501-10000)                 |              | T3B160                                                   | Federal Tier 3 Bin 160                               |    |
| HDV2                          | HDV2 (Federal HD chassis Class 3 GVW 10001-14000)                 |              | T3B125                                                   | Federal Tier 3 Bin 125                               |    |
| L2                            | California LEV-II LEV                                             |              | T3B110                                                   | Federal Tier 3 Transitional Bin 110                  |    |
| L2OP                          | California LEV-II LEV Optional                                    |              | T3B85                                                    | Federal Tier 3 Transitional Bin 85                   |    |
| U2                            | California LEV-II ULEV                                            |              | T3SULEV30                                                | Federal Tier 3 Transitional LEV-II SULEV30 Carryover |    |
| S2                            | California LEV-II SULEV                                           |              | T3B70                                                    | Federal Tier 3 Bin 70                                |    |
| ZEV                           | California ZEV                                                    |              | T3B50                                                    | Federal Tier 3 Bin 50                                |    |
| OT                            | Other                                                             |              | T3B30                                                    | Federal Tier 3 Bin 30                                |    |
| T1                            | Federal Tier 1                                                    |              | T3B20                                                    | Federal Tier 3 Bin 20                                |    |
| PZEV                          | California PZEV                                                   |              | T3B0                                                     | Federal Tier 3 Bin 0                                 |    |
| L2LEV160                      | California LEV-II LEV160                                          |              | HDV2B395                                                 | Federal Tier 3 HD Class 2b Transitional Bin 395      |    |
| L2ULEV125                     | California LEV-II ULEV125                                         |              | HDV2B340                                                 | Federal Tier 3 HD Class 2b Transitional Bin 340      |    |
| L2SULEV30                     | California LEV-II SULEV30                                         |              | HDV2B250                                                 | Federal Tier 3 HD Class 2b Bin 250                   |    |
| L2LEV395                      | California LEV-II LEV395                                          |              | HDV2B200                                                 | Federal Tier 3 HD Class 2b Bin 200                   |    |
| L2ULEV340                     | California LEV-II ULEV340                                         |              | HDV2B170                                                 | Federal Tier 3 HD Class 2b Bin 170                   |    |
| L2LEV630                      | California LEV-II LEV630                                          |              | HDV2B150                                                 | Federal Tier 3 HD Class 2b Bin 150                   |    |
| L2ULEV570                     | California LEV-II ULEV570                                         |              | HDV2B0                                                   | Federal Tier 3 HD Class 2b Bin 0                     |    |
| L3LEV160                      | California LEV-III LEV160                                         |              | HDV3B630                                                 | Federal Tier 3 HD Class 3 Transitional Bin 630       |    |
| L3ULEV125                     | California LEV-III ULEV125                                        |              | HDV3B570                                                 | Federal Tier 3 HD Class 3 Transitional Bin 570       |    |
| L3ULEV70                      | California LEV-III ULEV70                                         |              | HDV3B400                                                 | Federal Tier 3 HD Class 3 Bin 400                    |    |
| L3ULEV50                      | California LEV-III ULEV50                                         |              | HDV3B270                                                 | Federal Tier 3 HD Class 3 Bin 270                    |    |
| L3SULEV30                     | California LEV-III SULEV30                                        |              | HDV3B230                                                 | Federal Tier 3 HD Class 3 Bin 230                    |    |
| L3SULEV20                     | California LEV-III SULEV20                                        |              | HDV3B200                                                 | Federal Tier 3 HD Class 3 Bin 200                    |    |
| L3LEV395                      | California LEV-III LEV395                                         |              | HDV3B0                                                   | Federal Tier 3 HD Class 3 Bin 0                      |    |
| <b>Transmission Type Code</b> |                                                                   |              |                                                          |                                                      |    |
| AMS                           | Automated Manual- Selectable (e.g. Automated Manual with paddles) | M            | Manual                                                   |                                                      |    |
| A                             | Automatic                                                         | OT           | Other                                                    |                                                      |    |
| AM                            | Automated Manual                                                  | SA           | Semi-Automatic                                           |                                                      |    |
| CVT                           | Continuously Variable                                             | SCV          | Selectable Continuously Variable (e.g. CVT with paddles) |                                                      |    |
| <b>Drive System Code</b>      |                                                                   |              |                                                          |                                                      |    |
| 4                             | 4-Wheel Drive                                                     | P            | Part-time 4-Wheel Drive                                  |                                                      |    |
| F                             | 2-Wheel Drive, Front                                              | A            | All Wheel Drive                                          |                                                      |    |
| R                             | 2-Wheel Drive, Rear                                               |              |                                                          |                                                      |    |

## Certification Summary Information Report

| Test Group                    |                                 | PRIVT00.0194 | Evaporative/Refueling Family |                                  | -- |
|-------------------------------|---------------------------------|--------------|------------------------------|----------------------------------|----|
| Additional Terms and Acronyms |                                 |              |                              |                                  |    |
| AFC                           | Alternative Fuel Converter      |              | ICI                          | Independent Commercial Importer  |    |
| CSI                           | Certificate Summary Information |              | ORVR                         | Onboard Refueling Vapor Recovery |    |
| DF                            | Deterioration Factor            |              | SIL                          | Shift Indicator Light            |    |
| Evap                          | Evaporation, Evaporative        |              | Trans                        | Transmission                     |    |

## Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 1 of 22023 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: PRIVT00.0194Vehicle Class(es): PC\_\_\_\_, LDT1 (0-3750 lbs. LVW)\_\_\_\_, LDT2 ( $\geq$  3,751 lbs. LVW)\_\_\_\_,  
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)\_\_\_\_ZEV Type: NEV\_\_\_\_, ZEV XNo. of ZEV Credits per vehicle: 4Fuel Type: Electro-chemical Battery X, Fuel Cell\_\_\_\_, Capacitor\_\_\_\_, Other (specify)\_\_\_\_

Battery Type(s): Lead Acid\_\_\_\_ Nickel Cadmium\_\_\_\_ SBLA\_\_\_\_ Sodium Sulfur\_\_\_\_

Sodium Nickel Chloride\_\_\_\_ Nickel Metal Hydride\_\_\_\_ Lithium Metal Disulfide\_\_\_\_

Zinc Air\_\_\_\_ Zinc Bromine\_\_\_\_ Lithium Polymer\_\_\_\_, Lithium Ion X,

Other (specify): \_\_\_\_\_

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive\_\_\_\_.Drive Motors(s): AC Induction X DC Brush\_\_\_\_. DC Brushless\_\_\_\_

Switched Reluctance\_\_\_\_ Other (specify): \_\_\_\_\_.

No. of Drive Motors 4 Rated motor power 162 kW @ 6000 RPM Fronts  
163 kW @ 5000 RPM Rears Max rpm: 18000.Drive: FWD\_\_\_\_ RWD\_\_\_\_ 4WD-FT\_\_\_\_ 4WD-PT XRegenerative Braking: No\_\_\_\_ Yes X FW\_\_\_\_ RW\_\_\_\_ AW X.Driver Controlled Regen Braking: Yes X No\_\_\_\_ Coast Regen Braking: Yes X No\_\_\_\_.Air Conditioning: Yes X No\_\_\_\_, Fuel Fired Heater:<sup>1</sup> Yes\_\_\_\_ No X

| Vehicle Make & Models<br>(If coded, see attachments) | Trans type<br>M5, A4<br>(If applicable) | GVWR     | Curb Weight | ETW<br>or<br>Test Weight | DPA / RLHP<br>or<br>Dyno Coeff.<br>a=, b=, c=                                                                                                                                 |
|------------------------------------------------------|-----------------------------------------|----------|-------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Make: Rivian<br>Model:<br>R1T 21in                   | Automatic                               | 8532 lbs | 6870 lbs    | 7000 lbs                 | Conserve:<br>A: 48.14 lbs<br>B: 0.2372 lbs/mph<br>C: 0.02461 lbs/mph <sup>2</sup><br><br>All-Purpose:<br>A: 56.36 lbs<br>B: 0.2295 lbs/mph<br>C: 0.02774 lbs/mph <sup>2</sup> |

Date Issued:

Revisions:

10/20/2022<sup>1</sup> Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

## Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 2 of 22023 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: PRIVT00.0194

| Range Test Results |       |                                       |                                                                                                                                                                             |                                               |                         |                         |                          |
|--------------------|-------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|-------------------------|--------------------------|
| Vehicle ID         | Trans | (check one)<br>____TW<br><u>X</u> ETW | (check one)<br>____DPA<br>____RLHP<br>Or dyno coeff.                                                                                                                        | City<br>Range                                 | System<br>AC<br>(Wh/mi) | System<br>DC<br>(Wh/mi) | Vehicle<br>DC<br>(Wh/mi) |
| R1T3804R21         | AT    | 7000                                  | Conserve:<br>A: -10.16 lbs<br>B: 0.3177 lbs/mph<br>C: 0.02092 lbs/mph <sup>2</sup><br>All-Purpose:<br>A: -13.97 lbs<br>B: 0.1958 lbs/mph<br>C: 0.02521 lbs/mph <sup>2</sup> | Conserve:<br>502.57<br>All-Purpose:<br>475.41 | 294.68<br><br>312.73    | 253.23<br><br>268.34    | 253.23<br><br>268.34     |
|                    |       |                                       |                                                                                                                                                                             | Hwy.<br>Range                                 | System<br>AC<br>(Wh/mi) | System<br>DC<br>(Wh/mi) | Vehicle<br>DC<br>(Wh/mi) |
|                    |       |                                       |                                                                                                                                                                             | Conserve:<br>452.62<br>All-Purpose:<br>401.90 | 327.20<br><br>369.93    | 281.17<br><br>317.42    | 281.17<br><br>317.42     |

Battery Test Results: Pass Specific Energy: Wh/kg 169Remarks: NoneDate Issued: 10/20/2022

Revisions:

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Application:

Processed By: \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

## Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 1 of 22023 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: PRIVT00.0194Vehicle Class(es): PC\_\_\_\_, LDT1 (0-3750 lbs. LVW)\_\_\_\_, LDT2 ( $\geq$  3,751 lbs. LVW)\_\_\_\_,  
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)\_\_\_\_ZEV Type: NEV\_\_\_\_, ZEV XNo. of ZEV Credits per vehicle: 4Fuel Type: Electro-chemical Battery X, Fuel Cell\_\_\_\_, Capacitor\_\_\_\_, Other (specify)\_\_\_\_

Battery Type(s): Lead Acid\_\_\_\_ Nickel Cadmium\_\_\_\_ SBLA\_\_\_\_ Sodium Sulfur\_\_\_\_

Sodium Nickel Chloride\_\_\_\_ Nickel Metal Hydride\_\_\_\_ Lithium Metal Disulfide\_\_\_\_

Zinc Air\_\_\_\_ Zinc Bromine\_\_\_\_ Lithium Polymer\_\_\_\_, Lithium Ion X,

Other (specify): \_\_\_\_\_

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive\_\_\_\_.Drive Motors(s): AC Induction X DC Brush\_\_\_\_. DC Brushless\_\_\_\_

Switched Reluctance\_\_\_\_ Other (specify): \_\_\_\_\_.

No. of Drive Motors 4 Rated motor power 162 kW @ 6000 RPM Fronts  
163 kW @ 5000 RPM Rears Max rpm: 18000.Drive: FWD\_\_\_\_ RWD\_\_\_\_ 4WD-FT\_\_\_\_ 4WD-PT XRegenerative Braking: No\_\_\_\_ Yes X FW\_\_\_\_ RW\_\_\_\_ AW X.Driver Controlled Regen Braking: Yes X No\_\_\_\_ Coast Regen Braking: Yes X No\_\_\_\_.Air Conditioning: Yes X No\_\_\_\_, Fuel Fired Heater:<sup>1</sup> Yes\_\_\_\_ No X

| Vehicle Make & Models<br>(If coded, see attachments) | Trans type<br>M5, A4<br>(If applicable) | GVWR     | Curb Weight | ETW<br>or<br>Test Weight | DPA / RLHP<br>or<br>Dyno Coeff.<br>a=, b=, c=                                                                                                                                 |
|------------------------------------------------------|-----------------------------------------|----------|-------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Make: Rivian<br>Model:<br>R1S 21in                   | Automatic                               | 8532 lbs | 6843 lbs    | 7000 lbs                 | Conserve:<br>A: 54.76 lbs<br>B: 0.0623 lbs/mph<br>C: 0.02640 lbs/mph <sup>2</sup><br><br>All-Purpose:<br>A: 57.58 lbs<br>B: 0.1422 lbs/mph<br>C: 0.03083 lbs/mph <sup>2</sup> |

Date Issued:

10/20/2022

Revisions:

<sup>1</sup> Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

## Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 2 of 22023 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: PRIVT00.0194

| Range Test Results |       |                                       |                                                                                                                                                                           |                        |                         |                         |                          |
|--------------------|-------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|-------------------------|--------------------------|
| Vehicle ID         | Trans | (check one)<br>____TW<br><u>X</u> ETW | (check one)<br>____DPA<br>____RLHP<br>Or dyno coeff.                                                                                                                      | City<br>Range          | System<br>AC<br>(Wh/mi) | System<br>DC<br>(Wh/mi) | Vehicle<br>DC<br>(Wh/mi) |
| R1S0054R21         | AT    | 7000                                  | Conserve:<br>A: -5.23 lbs<br>B: 0.2694 lbs/mph<br>C: 0.02135 lbs/mph <sup>2</sup><br>All-Purpose:<br>A: 0.14 lbs<br>B: -0.0239 lbs/mph<br>C: 0.02896 lbs/mph <sup>2</sup> | Conserve:<br>496.29    | 303.54                  | 259.85                  | 259.85                   |
|                    |       |                                       |                                                                                                                                                                           | All-Purpose:<br>436.46 | 346.79                  | 296.65                  | 296.65                   |
|                    |       |                                       |                                                                                                                                                                           | Hwy.<br>Range          | System<br>AC<br>(Wh/mi) | System<br>DC<br>(Wh/mi) | Vehicle<br>DC<br>(Wh/mi) |
|                    |       |                                       |                                                                                                                                                                           | Conserve:<br>447.53    | 336.62                  | 288.17                  | 288.17                   |
|                    |       |                                       |                                                                                                                                                                           | All-Purpose:<br>376.54 | 401.98                  | 343.86                  | 343.86                   |

Battery Test Results: Pass Specific Energy: Wh/kg 169Remarks: NoneDate Issued: 10/20/2022

Revisions:

----- **ARB USE ONLY** -----

Application:

Processed By: \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

## Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 1 of 22023 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: PRIVT00.0194Vehicle Class(es): PC\_\_\_\_, LDT1 (0-3750 lbs. LVW)\_\_\_\_, LDT2 ( $\geq$  3,751 lbs. LVW)\_\_\_\_,  
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)\_\_\_\_ZEV Type: NEV\_\_\_\_, ZEV XNo. of ZEV Credits per vehicle: 4Fuel Type: Electro-chemical Battery X, Fuel Cell\_\_\_\_, Capacitor\_\_\_\_, Other (specify)\_\_\_\_

Battery Type(s): Lead Acid\_\_\_\_ Nickel Cadmium\_\_\_\_ SBLA\_\_\_\_ Sodium Sulfur\_\_\_\_

Sodium Nickel Chloride\_\_\_\_ Nickel Metal Hydride\_\_\_\_ Lithium Metal Disulfide\_\_\_\_

Zinc Air\_\_\_\_ Zinc Bromine\_\_\_\_ Lithium Polymer\_\_\_\_, Lithium Ion X,

Other (specify): \_\_\_\_\_

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive\_\_\_\_.Drive Motors(s): AC Induction X DC Brush\_\_\_\_. DC Brushless\_\_\_\_

Switched Reluctance\_\_\_\_ Other (specify): \_\_\_\_\_.

No. of Drive Motors 4 Rated motor power 162 kW @ 6000 RPM Fronts  
163 kW @ 5000 RPM Rears Max rpm: 18000.Drive: FWD\_\_\_\_ RWD\_\_\_\_ 4WD-FT\_\_\_\_ 4WD-PT XRegenerative Braking: No\_\_\_\_ Yes X FW\_\_\_\_ RW\_\_\_\_ AW X.Driver Controlled Regen Braking: Yes X No\_\_\_\_ Coast Regen Braking: Yes X No\_\_\_\_.Air Conditioning: Yes X No\_\_\_\_, Fuel Fired Heater:<sup>1</sup> Yes\_\_\_\_ No X

| Vehicle Make & Models<br>(If coded, see attachments) | Trans type<br>M5, A4<br>(If applicable) | GVWR     | Curb Weight          | ETW or Test Weight | DPA / RLHP or Dyno Coeff.<br>a=, b=, c=                                                                                                                                       |
|------------------------------------------------------|-----------------------------------------|----------|----------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Make: Rivian<br>Model:<br>R1T 22in<br>R1S 22in       | Automatic                               | 8532 lbs | 6883 lbs<br>6856 lbs | 7000 lbs           | Conserve:<br>A: 64.11 lbs<br>B: 0.0519 lbs/mph<br>C: 0.03015 lbs/mph <sup>2</sup><br><br>All-Purpose:<br>A: 61.59 lbs<br>B: 0.2581 lbs/mph<br>C: 0.02979 lbs/mph <sup>2</sup> |

Date Issued:

Revisions:

10/20/2022<sup>1</sup> Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

## Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 2 of 22023 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: PRIVT00.0194

| Range Test Results |       |                                       |                                                                                                                                                                           |                                               |                         |                         |                          |
|--------------------|-------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|-------------------------|--------------------------|
| Vehicle ID         | Trans | (check one)<br>____TW<br><u>X</u> ETW | (check one)<br>____DPA<br>____RLHP<br>Or dyno coeff.                                                                                                                      | City<br>Range                                 | System<br>AC<br>(Wh/mi) | System<br>DC<br>(Wh/mi) | Vehicle<br>DC<br>(Wh/mi) |
| R1S0054R22         | AT    | 7000                                  | Conserve:<br>A: -7.66 lbs<br>B: 0.0958 lbs/mph<br>C: 0.02611 lbs/mph <sup>2</sup><br>All-Purpose:<br>A: -3.30 lbs<br>B: 0.0455 lbs/mph<br>C: 0.02895 lbs/mph <sup>2</sup> | Conserve:<br>466.19<br>All-Purpose:<br>419.01 | 318.21<br><br>354.03    | 275.63<br><br>305.72    | 275.63<br><br>305.72     |
|                    |       |                                       |                                                                                                                                                                           | Hwy.<br>Range                                 | System<br>AC<br>(Wh/mi) | System<br>DC<br>(Wh/mi) | Vehicle<br>DC<br>(Wh/mi) |
|                    |       |                                       |                                                                                                                                                                           | Conserve:<br>413.09<br>All-Purpose:<br>357.12 | 359.11<br><br>415.39    | 311.06<br><br>358.70    | 311.06<br><br>358.70     |

Battery Test Results: Pass Specific Energy: Wh/kg 169Remarks: NoneDate Issued: 10/20/2022

Revisions:

----- **ARB USE ONLY** -----

Application:

Processed By: \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

## Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 1 of 22023 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: PRIVT00.0194Vehicle Class(es): PC\_\_\_\_, LDT1 (0-3750 lbs. LVW)\_\_\_\_, LDT2 ( $\geq$  3,751 lbs. LVW)\_\_\_\_,  
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)\_\_\_\_ZEV Type: NEV\_\_\_\_, ZEV XNo. of ZEV Credits per vehicle: 4Fuel Type: Electro-chemical Battery X, Fuel Cell\_\_\_\_, Capacitor\_\_\_\_, Other (specify)\_\_\_\_

Battery Type(s): Lead Acid\_\_\_\_ Nickel Cadmium\_\_\_\_ SBLA\_\_\_\_ Sodium Sulfur\_\_\_\_

Sodium Nickel Chloride\_\_\_\_ Nickel Metal Hydride\_\_\_\_ Lithium Metal Disulfide\_\_\_\_

Zinc Air\_\_\_\_ Zinc Bromine\_\_\_\_ Lithium Polymer\_\_\_\_, Lithium Ion X,

Other (specify): \_\_\_\_\_

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive\_\_\_\_.Drive Motors(s): AC Induction X DC Brush\_\_\_\_. DC Brushless\_\_\_\_

Switched Reluctance\_\_\_\_ Other (specify): \_\_\_\_\_.

No. of Drive Motors 4 Rated motor power 162 kW @ 6000 RPM Fronts  
163 kW @ 5000 RPM Rears Max rpm: 18000.Drive: FWD\_\_\_\_ RWD\_\_\_\_ 4WD-FT\_\_\_\_ 4WD-PT XRegenerative Braking: No\_\_\_\_ Yes X FW\_\_\_\_ RW\_\_\_\_ AW X.Driver Controlled Regen Braking: Yes X No\_\_\_\_ Coast Regen Braking: Yes X No\_\_\_\_.Air Conditioning: Yes X No\_\_\_\_, Fuel Fired Heater:<sup>1</sup> Yes\_\_\_\_ No X

| Vehicle Make & Models<br>(If coded, see attachments) | Trans type<br>M5, A4<br>(If applicable) | GVWR     | Curb Weight          | ETW or Test Weight | DPA / RLHP or Dyno Coeff.<br>a=, b=, c=                                                                                                                                       |
|------------------------------------------------------|-----------------------------------------|----------|----------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Make: Rivian<br>Model:<br>R1T 20in<br>R1S 20in       | Automatic                               | 8532 lbs | 6904 lbs<br>6877 lbs | 7000 lbs           | Conserve:<br>A: 64.11 lbs<br>B: 0.0519 lbs/mph<br>C: 0.03015 lbs/mph <sup>2</sup><br><br>All-Purpose:<br>A: 63.11 lbs<br>B: 0.2806 lbs/mph<br>C: 0.03086 lbs/mph <sup>2</sup> |

Date Issued:

Revisions:

10/20/2022<sup>1</sup> Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

## Suggested ZEV Application Format for Certification

E.O.#. \_\_\_\_\_ Page 2 of 22023 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET  
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: PRIVT00.0194

| Range Test Results |       |                                       |                                                                                                                                                                            |                        |                         |                         |                          |
|--------------------|-------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|-------------------------|--------------------------|
| Vehicle ID         | Trans | (check one)<br>____TW<br><u>X</u> ETW | (check one)<br>____DPA<br>____RLHP<br>Or dyno coeff.                                                                                                                       | City<br>Range          | System<br>AC<br>(Wh/mi) | System<br>DC<br>(Wh/mi) | Vehicle<br>DC<br>(Wh/mi) |
| R1S0054R20         | AT    | 7000                                  | Conserve:<br>A: -7.66 lbs<br>B: 0.0958 lbs/mph<br>C: 0.02611 lbs/mph <sup>2</sup><br>All-Purpose:<br>A: -5.27 lbs<br>B: -0.0653 lbs/mph<br>C: 0.02988 lbs/mph <sup>2</sup> | Conserve:<br>444.85    | 337.06                  | 289.27                  | 289.27                   |
|                    |       |                                       |                                                                                                                                                                            | All-Purpose:<br>398.48 | 376.31                  | 321.55                  | 321.55                   |
|                    |       |                                       |                                                                                                                                                                            | Hwy.<br>Range          | System<br>AC<br>(Wh/mi) | System<br>DC<br>(Wh/mi) | Vehicle<br>DC<br>(Wh/mi) |
|                    |       |                                       |                                                                                                                                                                            | Conserve:<br>392.16    | 382.35                  | 328.14                  | 328.14                   |
|                    |       |                                       |                                                                                                                                                                            | All-Purpose:<br>340.90 | 439.88                  | 375.87                  | 375.87                   |

Battery Test Results: Pass Specific Energy: Wh/kg 169Remarks: NoneDate Issued: 10/20/2022

Revisions:

----- **ARB USE ONLY** -----

Application:

Processed By: \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

**MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY**

**CARB USE ONLY**

|                     |              |
|---------------------|--------------|
| <b>Invoice Name</b> |              |
| <b>Invoice Date</b> | Nov 14, 2022 |

**COMPANY INFORMATION**

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Company Name</b>             | Rivian Automotive LLC |
| <b>Address</b>                  | 14600 Myford Rd       |
| <b>City</b>                     | Irvine                |
| <b>State</b>                    | CA                    |
| <b>Zip</b>                      | 92618                 |
| <b>Country</b>                  | United States         |
| <b>Contact Name</b>             | Sep Zaker             |
| <b>Contact Telephone Number</b> |                       |
| <b>Contact Email</b>            | sepzaker@rivian.com   |
| <b>CARB Customer Number</b>     |                       |

**APPLICATION INFORMATION**

| <b>Payment Row Number</b> | <b>Product Description or File Name</b> | <b>Model Year/Calendar Year</b> | <b>Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)</b> | <b>Category Type</b>                                             | <b>Fee Type</b> | <b>Amount</b> |
|---------------------------|-----------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|---------------|
| 1                         | R1T, R1S                                | Model Year 2023                 | PRIVT00.0194                                                                                                                                                                                                                  | Light-duty vehicle test group and medium-duty vehicle test group | Zero-Emission   | \$ 11,627.00  |

|                  |                     |
|------------------|---------------------|
| <b>Total Due</b> | <b>\$ 11,627.00</b> |
|------------------|---------------------|

I,  , attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)

# US EPA Fee Form

[Help and EPA Instructions](#)

\* Required Field

## General Information

**Date:** 11/22/2022

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

RIV

Manufacturer Name \*

Rivian Automotive LLC

Contact Name \*

Sep Zaker

Contact Email Address \*

sepzaker@rivian.com

Contact Phone \*

Calendar Year complete application submitted  
to EPA \*

2023

**PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2023, through December 31, 2023. The applicable fee is determined by the calendar year in which the complete certification application is received, not the model year.**

Engine Family / Evaporative Family / Test Group

\*

PRIVT00.0194

## Certificate Request Type (Industry Sector Code)

Certificate Request Type \*

- ☒ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (Federal) (E, H)
- ☐ On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- ☐ On-Highway Motorcycle (C)
- ☐ On-Highway HDV Evap (F)
- ☐ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (California-Only) (E, H)
- ☐ Nonroad CI (L)
- ☐ Nonroad SI (B, S)
- ☐ Locomotive (G, K)
- ☐ All Nonroad Recreational, excluding Marine engines (X, Y)
- ☐ All Marine (Including IMO) (M, N, W)
- ☐ Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? \*

## Payment Information

Amount Owed

Payment Type \*

Online ACH



## Comments

EPA Form Number 3520-29

OMB Control No.2060-0545

Approval expires 12/31/2022

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

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