

Certification Summary Information Report

Manufacturer	Volkswagen Group of America, Inc.	Manufacturer Code	VGA
Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Certificate Number	RVGAT00.0AZE-001	CARB Executive Order #	--
Certificate Issue Date	02/02/2023	Certificate Revision Date	--
Certificate Effective Date	02/02/2023	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	01/09/2023 01:46:17 PM
Model Year	2024		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDT4
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	--	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	RVGAEEVNNAZE	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	03/30/2023	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	RVGAT00.0AZE
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	OBD compliance is not applicable. Values in this section are placeholders to allow submission of data set.		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group		RVGAT00.0AZE		Evaporative/Refueling Family		--	
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Volkswagen Group of America, Inc.	2 - Audi	350 - Q8 e-tron quattro	Federal	All Wheel Drive	Automatic	2	No
Volkswagen Group of America, Inc.	2 - Audi	351 - Q8 Sportback e-tron quattro	California + CAA Section 177 states	All Wheel Drive	Automatic	2	No
Volkswagen Group of America, Inc.	2 - Audi	351 - Q8 Sportback e-tron quattro	Federal	All Wheel Drive	Automatic	2	No
Volkswagen Group of America, Inc.	2 - Audi	349 - Q8 Sportback e-tron ultra quattro	California + CAA Section 177 states	All Wheel Drive	Automatic	2	No
Volkswagen Group of America, Inc.	2 - Audi	349 - Q8 Sportback e-tron ultra quattro	Federal	All Wheel Drive	Automatic	2	No
Volkswagen Group of America, Inc.	2 - Audi	350 - Q8 e-tron quattro	California + CAA Section 177 states	All Wheel Drive	Automatic	2	No

Engine Description

Hybrid Type	--	Hybrid Description	--
Engine Type	--	Mfr Engine Description	--
Engine Block Arrangement	--	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	--	Oil Viscosity/Classification	
Number of Cylinders/Rotors	--	Mechanically Variable Compression Ratio Indicator	--

After Treatment Device(s) (ATD)

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	--
Mfr Emission Control Device Comments	--

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	--	--	--	--	--	--	--	--	--	--

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Electricity	RVGA10077306	RVGA10077316
Electricity	RVGA10077348	RVGA10077349
Electricity	RVGA10078161	RVGA10078162

Certification Summary Information Report

Test Group	RVGAT00.0AZE	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	36
Total Voltage of Battery Packs	397	Battery Energy Capacity	288
Battery Specific Energy	156.6	Battery Charger Type	On-Board
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)	2		
Motor/Generator Type 1	3 Phase Asynchron Drive Motor	Rated Motor/Generator Power	172
Motor/Generator Type 2	3 Phase Asynchron Drive Motor	Rated Motor/Generator Power	141
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	RAZE-E55-294 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	RVGAT00.0AZE	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2024							
Vehicle Model								
Represented Test Vehicle Make	AUDI	Represented Test Vehicle Model	Q8 e-tron quattro					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes					
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	Yes							
Odometer Correction -- Initial	0	Odometer Correction Factor	1					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	EASA/EDEA	Rated Horsepower	402					
Displacement (liters)	0.01							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	N/A					
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	N/A	Drive Mode While Testing	All Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	5864	Equivalent Test Weight (pounds)	6000					
GVWR (lbs)	7055	N/V Ratio	103					
Axle Ratio	9.08							
Transmission Type	Direct Drive	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group		RVGAT00.0AZE			Evaporative/Refueling Family		--
Dynamometer Coefficients:							
Target Coefficients				Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	41.727	0.0055	0.020851	-2.624	-0.0085	0.0189	12.6
Cold CO	45.9	0.00605	0.022936	-15.442	0.04204	0.020484	N/A
US06	41.727	0.0055	0.020851	-2.624	-0.0085	0.0189	N/A
Emission Control Device Comments		Electric motor has no air aspiration devices. Final Axle Ratio: 9.21 Front or 9.08 Rear					
Manufacturer Test Vehicle Comments		MY24 Q8 e-tron quattro tested as a Q8 e-tron quattro 4 dr. SUV - ETW: 6000					

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Test #	RVGA10077462	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	09/22/2022	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6009	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.72	--
DT-EER (Drive Trace Energy Economy Rating)	-1.19	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.944	--
MFR FE (Manufacturer Fuel Economy)	9999	9999
NOX (Nitrogen Oxide)	0	--
PM (Particulate Matter)	0	--

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

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

Manufacturer Test Comments

Q8 e-tron tested as Q8 etron and carry cross for Q8 Sportback e-tron. DC energy consumption Phase 1 = 332.5 Wh/mi; Phase 2 = 271.2 Wh/mi; Phase 3 = 285.5 Wh/mi. Trace date for Phase 1.

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Test #	RVGA10077461	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	09/22/2022	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6009	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.781	--
DT-EER (Drive Trace Energy Economy Rating)	-0.8	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.8234	--
MFR FE (Manufacturer Fuel Economy)	9999	9999
NOX (Nitrogen Oxide)	0	--

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

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

Manufacturer Test Comments Q8 e-tron tested as Q8 e-tron and carry cross for Q8 Sprotback e-tron. Five Cycle Adjustment Factor Testing. DC energy consumption = 266.3 Wh/mi.

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Test #	RVGA10077463	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	09/22/2022	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6009	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-8.873	--
DT-EER (Drive Trace Energy Economy Rating)	-3.377	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-11.5543	--
NOX (Nitrogen Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
PM (Particulate Matter)	0	--

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

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

Manufacturer Test Comments

Q8 e-tron testing driven in D-Drive mode. Five Cycle Adjustment Factor Testing: DC energy consumption Phase 1 (Highway) = 347.4 Wh/mi; Phase 2 (City) = 420.2 Wh/mi. Trace data for US06 HWY.

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Test #	RVGA10077464	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	09/14/2022	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5982	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.389	--
DT-EER (Drive Trace Energy Economy Rating)	-2.678	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.08	--
NOX (Nitrogen Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--

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

Manufacturer Test Comments

Q8 e-tron tested as Q8 e-tron and carry cross for Q8 Sprotback e-tron. Five Cycle Adjustment Factor Testing: DC energy consumption = 326.52 Wh/mi

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--																																				
Test #	RVGA10077306	Test Procedure	81 - Charge Depleting UDDS																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																				
Test Date	08/09/2022	Fuel	Electricity																																				
Fuel Batch ID	--	Fuel Calibration Number	--																																				
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	AUDI AG Neckarsulm																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	3486	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	Yes																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
PHEV/EV Charge Depleting Test Information																																							
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	117.815																																				
Charge Depleting Range (Calculated miles)	370.11	Charge Depleting Range (Actual miles)	370.11																																				
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																				
Equivalent All Electric Range (miles)	370.11																																						
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--																																				
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>1</td><td>Carbon Monoxide</td><td>0</td></tr><tr><td>2</td><td>Carbon dioxide</td><td>0</td></tr><tr><td>3</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>4</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.015</td></tr><tr><td>5</td><td>Drive Trace Energy Economy Rating</td><td>-0.025</td></tr><tr><td>6</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.128</td></tr><tr><td>7</td><td>Manufacturer Fuel Economy</td><td>105.9</td></tr><tr><td>8</td><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>9</td><td>Particulate Matter</td><td>0</td></tr><tr><td>10</td><td>System End State of Charge Watt-hours</td><td>0</td></tr><tr><td>11</td><td>System Start State of Charge Watt-hours</td><td>0</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Carbon Monoxide	0	2	Carbon dioxide	0	3	Carbon-Related Exhaust Emissions	0	4	Drive Trace Absolute Speed Change Rating	-0.015	5	Drive Trace Energy Economy Rating	-0.025	6	Drive Trace Inertia Work Ratio Rating	-2.128	7	Manufacturer Fuel Economy	105.9	8	Nitrogen Oxide	0	9	Particulate Matter	0	10	System End State of Charge Watt-hours	0	11	System Start State of Charge Watt-hours	0
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																					
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8	Nitrogen Oxide	0																																					
9	Particulate Matter	0																																					
10	System End State of Charge Watt-hours	0																																					
11	System Start State of Charge Watt-hours	0																																					
Manufacturer Test Comments																																							
Q8 e-tron testing driven in D-Drive mode. DC energy consumption UDDS1 = 315.02 Wh/mi; UDDS2 = 287.86 Wh/mi; UDDS3 = 274.17 Wh/mi; UDDS4 = 277.81 Wh/mi; UDDS weighted = 280.7 Wh/mi; UDDS1 DC discharge energy = 2,347 Wh; MCT UBE energy = 103,904 Wh																																							

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Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--																																				
Test #	RVGA10077370	Test Procedure	86 - Charge Depleting 20 Degree F FTP																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																				
Test Date	08/09/2022	Fuel	N/A																																				
Fuel Batch ID	--	Fuel Calibration Number	--																																				
Vehicle Class	N/A	DF Type	Mfr. Determined																																				
Verify Test Lab ID	AUDI AG Ingolstadt																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	4287	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	Yes																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
PHEV/EV Charge Depleting Test Information																																							
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	115.919																																				
Charge Depleting Range (Calculated miles)	269.16	Charge Depleting Range (Actual miles)	269.16																																				
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																				
Equivalent All Electric Range (miles)	269.16																																						
Number of Charge Depleting Bags/Phases Conducted	73	Transition Bag/Phase Number	--																																				
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																					
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Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--																																				
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																					
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18	Manufacturer Fuel Economy	9999																																					
19	Nitrogen Oxide	0																																					
20	Particulate Matter	0																																					
21	System End State of Charge Watt-hours	0																																					
22	System Start State of Charge Watt-hours	0																																					
Manufacturer Test Comments	Q8 e-tron tested. Bag 1 and 3 data for the 20F charge depleting FTP. DC energy consumption Phase 1 = 676.9 Wh/mi; Phase 3 = 546.6 Wh/mi; Total charge depleting energy consumption = 381.7 Wh/mi.																																						

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Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	MY24 Q8 Sportback e-tron quattro tested as a Q8 Sportback e-tron quattro - AWD SUV - ETW: 6000.		

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--																																				
Test #	RVGA10077348	Test Procedure	81 - Charge Depleting UDDS																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																				
Test Date	09/23/2022	Fuel	Electricity																																				
Fuel Batch ID	--	Fuel Calibration Number	--																																				
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	AUDI AG Neckarsulm																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	6165	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	Yes																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
PHEV/EV Charge Depleting Test Information																																							
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	121.262																																				
Charge Depleting Range (Calculated miles)	398.48	Charge Depleting Range (Actual miles)	398.48																																				
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																				
Equivalent All Electric Range (miles)	398.48																																						
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--																																				
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>1</td><td>Carbon Monoxide</td><td>0</td></tr><tr><td>2</td><td>Carbon dioxide</td><td>0</td></tr><tr><td>3</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>4</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.815</td></tr><tr><td>5</td><td>Drive Trace Energy Economy Rating</td><td>-2.05</td></tr><tr><td>6</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-1</td></tr><tr><td>7</td><td>Manufacturer Fuel Economy</td><td>110.8</td></tr><tr><td>8</td><td>Nitrogen Oxide</td><td>0</td></tr><tr><td>9</td><td>Particulate Matter</td><td>0</td></tr><tr><td>10</td><td>System End State of Charge Watt-hours</td><td>0</td></tr><tr><td>11</td><td>System Start State of Charge Watt-hours</td><td>0</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Carbon Monoxide	0	2	Carbon dioxide	0	3	Carbon-Related Exhaust Emissions	0	4	Drive Trace Absolute Speed Change Rating	-0.815	5	Drive Trace Energy Economy Rating	-2.05	6	Drive Trace Inertia Work Ratio Rating	-1	7	Manufacturer Fuel Economy	110.8	8	Nitrogen Oxide	0	9	Particulate Matter	0	10	System End State of Charge Watt-hours	0	11	System Start State of Charge Watt-hours	0
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																					
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2	Carbon dioxide	0																																					
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9	Particulate Matter	0																																					
10	System End State of Charge Watt-hours	0																																					
11	System Start State of Charge Watt-hours	0																																					
Manufacturer Test Comments																																							
Q8 Sportback e-tron testing driven in D-Drive mode. AF carry cross from Q8 e-tron. DC energy consumption: UDDS1 - 309.37 Wh/mi; UDDS2 - 280.96 Wh/mi; UDDS3 - 270.63 Wh/mi; UDDS4 - 271.60 Wh/mi; UDDS weighted = 275.1 Wh/mi; UDDS1 DC discharge energy = 2311.0 Wh; MCT UBE energy = 109,634 Wh.																																							

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Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--																																				
Test #	RVGA10077349	Test Procedure	84 - Charge Depleting Highway																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																				
Test Date	09/23/2022	Fuel	Electricity																																				
Fuel Batch ID	--	Fuel Calibration Number	--																																				
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	AUDI AG Neckarsulm																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	6165	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	Yes																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
PHEV/EV Charge Depleting Test Information																																							
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	121.262																																				
Charge Depleting Range (Calculated miles)	425.81	Charge Depleting Range (Actual miles)	425.81																																				
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																				
Equivalent All Electric Range (miles)	425.81																																						
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--																																				
Charge Depleting Bag/Phase																																							
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																					
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8	Nitrogen Oxide	0																																					
9	Particulate Matter	0																																					
10	System End State of Charge Watt-hours	0																																					
11	System Start State of Charge Watt-hours	0																																					
Manufacturer Test Comments	Q8 Sportback e-tron testing driven in D-Drive mode. AF carry cross from Q8 e-tron. DC energy consumption HWFE1 = 260.88 Wh/mi; HWFE2 = 254.06 Wh/mi; HWFE average = 257.5 Wh/mi																																						

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Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	RAZE-E55-301 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RVGAT00.0AZE	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Audi	Represented Test Vehicle Model	Q8 Sportback e-tron ultra quattro						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<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							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	0	Odometer Correction Factor	0						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	EASA/EDEA	Rated Horsepower	402						
Displacement (liters)	0.01								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5809	Equivalent Test Weight (pounds)	6000						
GVWR (lbs)	6934	N/V Ratio	103						
Axle Ratio	9.08								
Transmission Type	Direct Drive	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	RVGAT00.0AZE			Evaporative/Refueling Family			--
Dynamometer Coefficients:							
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	39.22	0.0296	0.01753	3.9	-0.0984	0.01638	11.3
Cold CO	43.14	0.0326	0.01928	-23.62	0.006	0.01775	N/A
US06	39.22	0.0296	0.01753	3.9	-0.0984	0.01638	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	Rear axle: 9.08 and Front: 9.205. MY24 Q8 Sportback e-tron ultra tested as a Q8 Sportback e-tron ultra which is an AWD (quattro) - ETW: 6000.						

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Test #	RVGA10078226	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	11/30/2022	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6948	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.003	--
DT-EER (Drive Trace Energy Economy Rating)	-1.322	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.9759	--
MFR FE (Manufacturer Fuel Economy)	9999	9999
NOX (Nitrogen Oxide)	0	--
PM (Particulate Matter)	0	--

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

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

Manufacturer Test Comments

Q8 Sportback e-tron ultra tested in D-mode. DC energy consumption Phase 1 = 344.8 Wh/mi; Phase 2 = 288.5 Wh/mi; Phase 3 = 286.6 Wh/mi. Trace date for Phase 1.

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Test #	RVGA10078227	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	11/30/2022	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6948	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.12	--
DT-EER (Drive Trace Energy Economy Rating)	-3.541	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.662	--
MFR FE (Manufacturer Fuel Economy)	9999	9999
NOX (Nitrogen Oxide)	0	--

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

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

Manufacturer Test Comments

Q8 Sportback e-tron ultra tested in D-mode. Five Cycle Adjustment Factor Testing. DC energy consumption = 250.9 Wh/mi.

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Test #	RVGA10078228	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	11/30/2022	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6948	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-8.398	--
DT-EER (Drive Trace Energy Economy Rating)	-5.329	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-11.4579	--
NOX (Nitrogen Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
PM (Particulate Matter)	0	--

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

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

Manufacturer Test Comments

Q8 Sportback e-tron ultra testing driven in D-Drive mode. Five Cycle Adjustment Factor Testing: DC energy consumption Phase 1 (Highway) = 311.6 Wh/mi; Phase 2 (City) = 400.6 Wh/mi. Trace data for US06 HWY.

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--
Test #	RVGA10078229	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/01/2022	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	AUDI AG Neckarsulm		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6980	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.505	--
DT-EER (Drive Trace Energy Economy Rating)	-2.138	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.589	--
NOX (Nitrogen Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--

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

Manufacturer Test Comments

Q8 Sportback e-tron ultra tested in D-Mode. Five Cycle Adjustment Factor Testing: DC energy consumption = 319.7 Wh/mi

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Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--																																				
Test #	RVGA10078230	Test Procedure	86 - Charge Depleting 20 Degree F FTP																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																																				
Test Date	11/24/2022	Fuel	N/A																																				
Fuel Batch ID	--	Fuel Calibration Number	--																																				
Vehicle Class	N/A	DF Type	Mfr. Determined																																				
Verify Test Lab ID	AUDI AG Neckarsulm																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	6572	Odometer Units	M																																				
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	Yes																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
PHEV/EV Charge Depleting Test Information																																							
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	68.284																																				
Charge Depleting Range (Calculated miles)	304.26	Charge Depleting Range (Actual miles)	304.26																																				
All Electric Range Unadjusted (miles)	--	Derived 5-Cycle Coefficient Model Year	--																																				
Equivalent All Electric Range (miles)	304.26																																						
Number of Charge Depleting Bags/Phases Conducted	82	Transition Bag/Phase Number	--																																				
Charge Depleting Bag/Phase																																							
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																																					
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Charge Depleting Bag/Phase																																							

Certification Summary Information Report

Test Group	RVGAT00.0AZE	Evaporative/Refueling Family	--

Certification Summary Information Report

Test Group		RVGAT00.0AZE			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			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	CREE	--	--	--	--	--	--	0	999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			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	CREE	--	--	--	--	--	--	0	999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 0	
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	CREE	--	--	--	--	--	--	0	999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			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
120,000 miles	CREE	--	--	--	--	--	--	0	999

Certification Summary Information Report

Test Group		RVGAT00.0AZE			Evaporative/Refueling Family			--			
Cert Region		Federal			Cert/In-Use Code			Cert			
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 0			
Fuel		Electricity			Test Procedure			California fuel 3-day exhaust			
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	0.0
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert			
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV			
Fuel		Electricity			Test Procedure			California fuel 3-day exhaust			
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	0.0

Certification Summary Information Report

Test Group		RVGAT00.0AZE	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	

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Test Group		RVGAT00.0AZE	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	
Transmission Type Code					
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)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				

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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		