

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

CARB USE ONLY

Invoice Name	MSF240804
Invoice Date	Feb 06, 2025

COMPANY INFORMATION

Company Name	Ford Motor Company
Address	1 American Road
City	Dearborn
State	Michigan
Zip	48193
Country	United States
Contact Name	Tina Oliver
Contact Telephone Number	313-3238938
Contact Email	toliver@ford.com
CARB Customer Number	CCAM000031

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	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)	Category Type	Fee Type	Amount
1	26_CBI_TFMXT03.0JPC_APP	Model Year 2026	TFMXT03.0JPC	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
2	26_CBI_TFMXT02.34K4_APP	Model Year 2026	TFMXT02.34K4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
3	26_CBI_TFMXT02.02JF_APP	Model Year 2026	TFMXT02.02JF	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
4	26_CBI_TFMXT03.0TPC_APP	Model Year 2026	TFMXT03.0TPC	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
5	26_CBI_TFMXT03.33F1_APP	Model Year 2026	TFMXT03.33F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
6	26_CBI_TFMXV05.0VKN_APP	Model Year 2026	TFMXV05.0VKN	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
7	26_CBI_TFMXV05.2GTD_APP	Model Year 2026	TFMXV05.2GTD	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
8	26_CBI_TFMXV03.33U3_APP	Model Year 2026	TFMXT03.33U3	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
9	26_CBI_TFMXT02.54F1_APP	Model Year 2026	TFMXT02.54F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00

10	26_CBI_TFMXT01.52X4_APP	Model Year 2026	TFMXT01.52X4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
11	26_CBI_TFMXV02.3VJG_APP	Model Year 2026	TFMXV02.3VJG	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
12	26_CBI_TFMXT03.51F2_APP	Model Year 2026	TFMXT03.51F2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
13	26_CBI_TFMXT02.02Y5_APP	Model Year 2026	TFMXT02.02Y5	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
14	26_CBI_TFMXT03.57AV_APP	Model Year 2026	TFMXT03.57AV	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
15	26_CBI_TFMXT05.03DP_APP	Model Year 2026	TFMXT05.03DP	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
16	26_CBI_TFMXT03.54HT_APP	Model Year 2026	TFMXT03.54HT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
17	26_CBI_TFMXT03.54JK_APP	Model Year 2026	TFMXT03.54JK	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
18	26_CBI_TFMXT02.73JK_APP	Model Year 2026	TFMXT02.73JK	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
19	26_CBI_TFMXT00.0BG2_APP	Model Year 2026	TFMXT00.0BG2	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
20	26_CBI_TFMXT00.0BG4_APP	Model Year 2026	TFMXT00.0BG4	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
21	26_CBI_TFMXT05.2AHS_APP	Model Year 2026	TFMXT05.2AHS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
22	26_CBI_TFMXV00.0B4A_APP	Model Year 2026	TFMXV00.0B4A	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
23	26_CBI_TFMXV00.0G4A_APP	Model Year 2026	TFMXV00.0G4A	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
24	26_CBI_TFMXT02.36HH_APP	Model Year 2026	TFMXT02.36HH	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
25	26_CBI_TFMXT03.03V8_APP	Model Year 2026	TFMXT03.03V8	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
26	26_CBI_TFMXV00.0B4R_APP	Model Year 2026	TFMXV00.0B4R	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
27	26_CBI_TFMXV00.0BLA_APP	Model Year 2026	TFMXV00.0BLA	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
28	26_CBI_TFMXV00.0BLR_APP	Model Year 2026	TFMXV00.0BLR	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
29	26_CBI_TFMXT02.31EN_APP	Model Year 2026	TFMXT02.31EN	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
30	26_CBI_TFMXT02.72V9_APP	Model Year 2026	TFMXT02.72V9	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
31	26_CBI_TFMXT02.71HT_APP	Model Year 2026	TFMXT02.71HT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
32	26_CBI_TFMXV05.2VEZ_APP	Model Year 2026	TFMXV05.2VEZ	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00

				medium-duty vehicle test group				
						<table><tr><td>Total Due</td><td>\$ 1,295,952.00</td></tr></table>	Total Due	\$ 1,295,952.00
Total Due	\$ 1,295,952.00							

I,  , attest that any information provided is true, accurate, and complete.
(Responsible Party Signature Here)

Application for Certification

Part 1



FORD MOTOR COMPANY
APPLICATION FOR CERTIFICATION - PART 1

2026 Model Year

Test Group: TFMXV05.2VEZ
Durability Group: TFMXGPGNND5A
Evap. Families: TFMXR0130NDE
Test Group Description: 5.2L V8 SC
Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled,
Supercharged, Catalyst Code D
Carlines Covered: MUSTANG DARK HORSE SC
Federal Applicable Standards: Federal Exhaust - Tier 3 Bin 125
Federal Evap - Tier 3
California Applicable Standards: California Exhaust - LEV-III ULEV125
California Evap - LEV-IV Option 2

Vehicles Tested

Exhaust Emission Vehicle:		Evaporative Emission Vehicle:	
TZG1-5.2-J-327/Config 0		PZJ1-5.0-J-660/Config 0 (TFMXR0130NDE)	
FTP (E10) TN	TFMX10093110	2Day TN	RFMX10078667
HWY (E10) TN	TFMX10093111	3Day TN	RFMX10078668
US06 (E10) TN	TFMX10093112	Linking TN	RFMX10078664
SC03 (E10) TN	TFMX10093113	ORVR	RFMX10078666
Cold CO (E10) TN	TFMX10093114	RL TN	RFMX10078669
50 NMOG (E10) TN	TFMX10093115	564W749/Config 0 (TFMXR0130NDE)	
		BETP	RFMX10078670

Release Date: July 27, 2026

For Questions, Contact:

Perez, David, dperez92@ford.com (524921718199)



Part 1 Application Index

- § 00.00.00.00 Cover Page**
- § 02.00.00.00 Durability Group Description**
- § 03.00.00.00 Evaporative/ Refueling Family Description**
- § 04.00.00.00 Durability Procedure Description**
- § 05.00.00.00 Test Group Description**
- § 06.00.00.00 Test Vehicle Description**
- § 07.00.00.00 Test Results**
 - 07.00.01.00 EPA Certification Summary Information (CSI) report(s)
- § 08.00.00.00 Emission Testing Waiver Statements**
 - 08.00.01.00 Statements of compliance
- § 09.00.00.00 OBDII System Description**
- § 10.00.00.00 Alternate –Fueled Vehicle Description**
- § 11.00.00.00 AECD Descriptions**
- § 12.00.00.00 Description of Vehicles Covered by Certificate and Test Parameters**
 - 12.00.01.00 Common Family Parameters
 - 12.00.02.00 Calibration Description
 - 12.00.03.00 Calibration Parts List
 - 12.00.05.00 Test Vehicle Requirements
 - 12.00.06.00 Vehicle Description Reports
- § 14.00.00.00 Request for Certification**
- § 15.00.00.00 Other Information**
 - 15.00.01.00 Fee Filing Form
- § 16.00.00.00 Confidential Information**
 - 16.00.01.00 Family Catalyst Information
 - 16.00.03.00 OBD II Deficiency Summary
 - 16.00.04.00 DF Summary
 - 16.00.05.00 PowerTrain Control Module (PCM) - Parameters
- § 17.00.00.00 California ARB Information**
 - 17.00.03.00 VECI Label
- § 18.00.00.00 Revisions**

Part 2 Application Index **(Running change updates)**



SECTION 2

Durability Group Description

For a description of the Durability Group for this test group refer to Section 16.00.00.00 of the Common Section.



SECTION 3

Evaporative/Refueling Family Description

03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Families		Application (s)			
TFMXR0130NDE		2026MY 5.2L SC Mustang Dark Horse SC Plastic Fuel Tank 16.1 gal. Tank Code M			
<u>Emission Component</u>	<u>Comments</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Canister Purge Valve EU5A-9G866-BD		Signal from PCM	Vacuum to canister	Operates in FTP	85 SLPM
Capless Refueling Component LU5A-9D000-CC		None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	
Carbon Canister GU5A-9D653-AD		None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	130g BWC 1.9L Total Volume
Fuel Tank Pressure Sensor 9U5A-9C052-BC		Fuel Tank Pressure	None	Operates in FTP	
Grade Vent Valve (GVV) FR3C-9B593-BB		Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	
Fuel Limiting Vent Valve (FLVV) FR3C-9B190-BC		Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	Orifice Diameter: 9.14mm
Fuel Vapor Recirculation Hose PR3C-9E325-AC		None	Vapor Recirculation	Operates in ORVR	Orifice Diameter: 2.5mm
Air Induction System (AIS) Hydrocarbon Trap NR3V-9G723-AA		None	AIS Fuel Vapor	Operates in EVAP	n/a



SECTION 4

Durability Procedure Description

For a description of the Durability Procedure,
refer to Section 16.00.00.00 of the Common Section.



SECTION 5

Test Group Description

For a description of this Test Group, refer to the Cover Page (00.00.00.00) and to the Test Results Section (07.00.00.00) of this application.



SECTION 6

Test Vehicle Description

For a description of the Test Vehicles utilized in this Test Group,
refer to Section 07.00.00.00 of this application.



SECTION 7

EPA Certification Summary Information Report (Test Results)

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	02/26/2026 10:40:44 PM
Model Year	2026		

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: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Multipoint/sequential fuel injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	TFMXGPGNND5A	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TFMXD06.87BC
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	City Litmus Value = 11.7, City Litmus Threshold Value = 11.3, Highway Litmus Value = 17.6, Highway Litmus Threshold Value = 16.1		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	04/03/2025 12:17:50 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Other	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	Carbon HC Trap air induction system				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	See comments below				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	130	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	0				
Mfr Evaporative/Refueling Family Comments	1 X 1.8L HA 3-port Rect. + 1 X 0.066L Bleed						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
TFMXR0130NDE-001	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Ford Motor Company	1 - Ford	8 - MUSTANG DARK HORSE SC	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	Yes
Ford Motor Company	1 - Ford	8 - MUSTANG DARK HORSE SC	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	7	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Compression Ignition	Mfr Engine Description	--				
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	V8 5.2L SC				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 5W-50 / API SP				
Number of Cylinders/Rotors	8	Mechanically Variable Compression Ratio Indicator	N				

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Palladium + Rhodium	Ceramic
3	Three-way catalyst	Palladium + Rhodium	Ceramic
4	Three-way catalyst	Palladium + Rhodium	Ceramic
5	Three-way catalyst	Palladium + Rhodium	Ceramic
6	Three-way catalyst	Palladium + Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
--			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			
Engine Configuration Number 1			
Engine Displacement (liters)	5.2	Engine Rated Horsepower	775
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Supercharged	Number of Air Aspiration Devices	1
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Liquid
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	TiVCT		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated air fuel	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated air fuel	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	Yes		
Air Injection Type	--	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group		TFMXV05.2VEZ				Evaporative/Refueling Family			TFMXR0130NDE		
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
Gasoline		TFMX10093110	TFMX10093112	TFMX10093113	TFMX10093114	TFMX10093111	11.7	11.4	17.6	16.2	--
SFTP LEV-III Official Test Numbers											
Test Group Fuel		FTP		US06			SC03				
Gasoline		TFMX10093110		TFMX10093112			TFMX10093113				

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE						
Emission Data Vehicle Information									
Vehicle ID / Configuration	564W749 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RFMXV02.3VJY	Original Evaporative/Refueling Family	RFMXR0130NDE						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	MUSTANG PERFORMANCE PACK						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	RFMXR0130NDE-001						
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>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	RCZJN3ND01	Rated Horsepower	300						
Displacement (liters)	2.3								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)						
Curb Weight (lbs)	3920	Equivalent Test Weight (pounds)	4250						
GVWR (lbs)	4705	N/V Ratio	29						
Axle Ratio	3.55								
Transmission Type	Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
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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	42.12	0.0191	0.02643	1.07	0.6409	0.0187	14.6
Cold CO	42.12	0.0191	0.02643	1.07	0.6409	0.0187	N/A
US06	42.12	0.0191	0.02643	1.07	0.6409	0.0187	N/A

Emission Control Device Comments T3B30/SULEV30, SFTP-0.050, PM3, CB3, T3e, L3e

Manufacturer Test Vehicle Comments 24MY FORD MUSTANG 2.3L GTPFDI RWD

Test #	RFMX10078670	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	10/03/2022	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	5155	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL (Total Hydrocarbon)	0.0032	--

Manufacturer Test Comments E10 Evaporative Test Measurement Method is Manufacturer FIDw/o speciation. The pull down menu does not include this option.

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL	0.0032	0	0.003	0.020	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.0032	0	0.003	0.020	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE						
Emission Data Vehicle Information									
Vehicle ID / Configuration	PZJ1-5.0-J-660 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RFMXV05.0VKN	Original Evaporative/Refueling Family	RFMXR0130NDE						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Mustang						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	RFMXR0130NDE-001						
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>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	RCZJMFND00	Rated Horsepower	480						
Displacement (liters)	5								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4113	Equivalent Test Weight (pounds)	4500						
GVWR (lbs)	4860	N/V Ratio	30						
Axle Ratio	3.55								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family		TFMXR0130NDE	
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	47.89	0.4442	0.02369	22.25	0.4606	0.02154	17.2	
Cold CO	47.89	0.4442	0.02369	22.25	0.4606	0.02154	N/A	
US06	47.89	0.4442	0.02369	22.25	0.4606	0.02154	N/A	
Emission Control Device Comments		HP on Premium Fuel						
Manufacturer Test Vehicle Comments		--						

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	RFMX10078664	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/20/2022	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	71
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3884	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	481.16093	--
FE BAG 1 (Bag 1 Fuel Economy)	18.03748	18.03748
CO2 BAG 2 (Bag 2 Carbon Dioxide)	481.94722	--
FE BAG 2 (Bag 2 Fuel Economy)	18.04224	18.04224
CO2 BAG 3 (Bag 3 Carbon Dioxide)	444.00217	--
FE BAG 3 (Bag 3 Fuel Economy)	19.56605	19.56605
METHANE (CH4 - Methane)	0.01507	--
CO (Carbon Monoxide)	0.83536	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.51825	--
DT-EER (Drive Trace Energy Economy Rating)	-0.595358	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.778936	--
MFR FE (Manufacturer Fuel Economy)	18.44935	18.44935
NOX (Nitrogen Oxide)	0.01414	--
N2O (Nitrous Oxide)	0.00227	--
HC-NM (Non-methane Hydrocarbon)	0.0210123	--
NMOG (Non-methane organic gases)	0.0231	--
PM (Particulate Matter)	0.0008356	--
HC-TOTAL (Total Hydrocarbon)	0.03509	--

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	473	999
Optional Carbon-Related Exhaust Emissions	474	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	471.37258	--

Manufacturer Test Comments EDV 4K COMBO NMOG = 1.04 * NMHCr

Test #	RFMX10078667	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	RFMX10078664	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/18/2022	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4193	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.2697	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2697	--

Manufacturer Test Comments 2 day evap Measured NMOG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2697	0.0000	0.270	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	OMHCE	0.2697	0.0000	0.270	0.300	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	RFMX10078668	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	RFMX10078664	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/20/2023	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4363	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.2676	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2676	--

Manufacturer Test Comments

3 day cert evap Measured NMOG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2676	0.0000	0.268	0.300	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	OMHCE	0.2676	0.0000	0.268	0.300	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ		Evaporative/Refueling Family		TFMXR0130NDE			
Test #	RFMX10078666		Test Procedure		24 - Federal fuel refueling test (ORVR)			
Exhaust Test # for this Evap Test	RFMX10078664		Test Fuel Type		48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)			
Test Date	01/25/2023		Fuel		Gasoline			
Fuel Batch ID	--		Fuel Calibration Number		--			
Vehicle Class	N/A		DF Type		Mfr. Determined			
Verify Test Lab ID	APTL							
E10 Evaporative Test Measurement Method	--							
Test Start Odometer Reading	4135		Odometer Units		M			
4WD Test Dyno	No		Diesel Adjustment Factor Usage		--			
State of Charge Delta	--							
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		Road Speed Fan Usage		--			
Test Results								
Test Result Name			Unrounded Test Result		Verify Calculated FE Equivalent Value (miles per gallon)			
OMHCE (Organic material Hydrocarbon Equivalent)			0.004		--			
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)			0.004		--			
Manufacturer Test Comments								
ORVR TEST								
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.004	0.005	0.01	0.20	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	OMHCE	0.004	0.005	0.01	0.20	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	RFMX10078669	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	RFMX10078664	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	01/20/2023	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4375	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--

Manufacturer Test Comments

Measured NMOG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	OMHCE	0.000	0.000	0.00	0.01	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
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Emission Data Vehicle Information

Vehicle ID / Configuration	TZG1-5.2-J-327 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TFMXV05.2VEZ	Original Evaporative/Refueling Family	TFMXR0130NDE
Original Test Vehicle Model Year	2026		
Vehicle Model			
Represented Test Vehicle Make	FORD	Represented Test Vehicle Model	Mustang Dark Horse SC

Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	TCZJH0NA00	Rated Horsepower	775
Displacement (liters)	5.2		
Air Aspiration Method	Supercharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single
Charge Air Cooler Type	Air	Drive Mode While Testing	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)
Curb Weight (lbs)	4249	Equivalent Test Weight (pounds)	4500
GVWR (lbs)	5070	N/V Ratio	28.5
Axle Ratio	3.55		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7
Transmission Lockup	No	Creep Gear	No

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family		TFMXR0130NDE	
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	52.05	0.3369	0.02848	-0.53	-0.6336	0.03546	18.7	
Cold CO	52.05	0.3369	0.02848	-0.53	-0.6336	0.03546	N/A	
US06	52.05	0.3369	0.02848	-0.53	-0.6336	0.03546	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Vehicle is RWD and is tested on a AWD test site. No dyno mode, No Coast down mode and No Neutral hold mode						

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093110	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	12/17/2025	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	26
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5887	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	581.450838	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	2.3722	--	
FE BAG 1 (Bag 1 Fuel Economy)	14.775628	14.775628	
CH4 BAG 1 (Bag 1 Methane)	0.0230763	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0768594	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	626.618951	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0447	--	
FE BAG 2 (Bag 2 Fuel Economy)	13.78429	13.78429	
CH4 BAG 2 (Bag 2 Methane)	0.0018262	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0016363	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	554.965357	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.1759	--	
FE BAG 3 (Bag 3 Fuel Economy)	15.565417	15.565417	
CH4 BAG 3 (Bag 3 Methane)	0.0068533	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0052161	--	
METHANE (CH4 - Methane)	0.007612	--	
CO (Carbon Monoxide)	0.56305	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.306637	--	
DT-EER (Drive Trace Energy Economy Rating)	0.334013	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.19222	--	
HCHO (Formaldehyde)	0.0006	--	
MFR FE (Manufacturer Fuel Economy)	14.4	14.4	
NOX (Nitrogen Oxide)	0.022308	--	
N2O (Nitrous Oxide)	0.0002	--	
HC-NM (Non-methane Hydrocarbon)	0.016527	--	
NMOG (Non-methane organic gases)	0.018225	--	
PM (Particulate Matter)	0.000333	--	
HC-TOTAL (Total Hydrocarbon)	0.023763	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	599	599	
Optional Carbon-Related Exhaust Emissions	599	599	

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Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family					TFMXR0130NDE		
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 125	CO	0.56	--	--	--	--	--	0.6	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.66	--	--	--	--	--	0.7	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	599	--	--	--	0	--	599	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	HCHO	0.0006	--	--	--	--	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.0076	--	--	--	--	--	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	N2O	0.0002	--	--	--	--	--	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0182	--	1.1	--	--	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0405	--	--	--	--	--	0.040	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0503	--	--	--	--	--	0.050	0.090	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0223	--	--	--	--	--	0.022	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	OPT-CREE	599	--	--	--	0	--	599	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0003	--	--	--	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.56	--	--	--	--	--	0.6	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	CO-COMP	0.66	--	--	--	--	--	0.7	4.2	Pass
CA	150,000 miles	California LEV-III ULEV125	HCHO	0.0006	--	--	--	--	--	0.001	0.004	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0182	--	1.1	--	--	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0405	--	--	--	--	--	0.040	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX-COMP	0.0503	--	--	--	--	--	0.050	0.090	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0223	--	--	--	--	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0003	--	--	--	--	--	0.000	0.003	Pass

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

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093114	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	01/23/2026	Fuel	Gasoline
Fuel Batch ID	376-B	Fuel Calibration Number	11
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4004	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE																																																																													
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>805.552195</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>11.6013</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>10.383182</td><td>10.383182</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.2065412</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>2.7531963</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>808.405366</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.1749</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>10.691681</td><td>10.691681</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.000549</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0144626</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>619.375916</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.1353</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>13.955558</td><td>13.955558</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0067655</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0084489</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.045012</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>2.535585</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.007703</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.638103</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.065722</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>11.3</td><td>11.3</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.029811</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.52577</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.579873</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.568203</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	805.552195	--	CO BAG 1 (Bag 1 Carbon Monoxide)	11.6013	--	FE BAG 1 (Bag 1 Fuel Economy)	10.383182	10.383182	CH4 BAG 1 (Bag 1 Methane)	0.2065412	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	2.7531963	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	808.405366	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.1749	--	FE BAG 2 (Bag 2 Fuel Economy)	10.691681	10.691681	CH4 BAG 2 (Bag 2 Methane)	0.000549	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0144626	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	619.375916	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.1353	--	FE BAG 3 (Bag 3 Fuel Economy)	13.955558	13.955558	CH4 BAG 3 (Bag 3 Methane)	0.0067655	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0084489	--	METHANE (CH4 - Methane)	0.045012	--	CO (Carbon Monoxide)	2.535585	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.007703	--	DT-EER (Drive Trace Energy Economy Rating)	-0.638103	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.065722	--	MFR FE (Manufacturer Fuel Economy)	11.3	11.3	NOX (Nitrogen Oxide)	0.029811	--	HC-NM (Non-methane Hydrocarbon)	0.52577	--	NMOG (Non-methane organic gases)	0.579873	--	HC-TOTAL (Total Hydrocarbon)	0.568203	--	
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																													
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	805.552195	--																																																																													
	CO BAG 1 (Bag 1 Carbon Monoxide)	11.6013	--																																																																													
	FE BAG 1 (Bag 1 Fuel Economy)	10.383182	10.383182																																																																													
	CH4 BAG 1 (Bag 1 Methane)	0.2065412	--																																																																													
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	2.7531963	--																																																																													
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	808.405366	--																																																																													
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.1749	--																																																																													
	FE BAG 2 (Bag 2 Fuel Economy)	10.691681	10.691681																																																																													
	CH4 BAG 2 (Bag 2 Methane)	0.000549	--																																																																													
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0144626	--																																																																													
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	619.375916	--																																																																													
	CO BAG 3 (Bag 3 Carbon Monoxide)	0.1353	--																																																																													
	FE BAG 3 (Bag 3 Fuel Economy)	13.955558	13.955558																																																																													
	CH4 BAG 3 (Bag 3 Methane)	0.0067655	--																																																																													
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0084489	--																																																																													
	METHANE (CH4 - Methane)	0.045012	--																																																																													
	CO (Carbon Monoxide)	2.535585	--																																																																													
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.007703	--																																																																													
	DT-EER (Drive Trace Energy Economy Rating)	-0.638103	--																																																																													
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.065722	--																																																																													
	MFR FE (Manufacturer Fuel Economy)	11.3	11.3																																																																													
	NOX (Nitrogen Oxide)	0.029811	--																																																																													
	HC-NM (Non-methane Hydrocarbon)	0.52577	--																																																																													
	NMOG (Non-methane organic gases)	0.579873	--																																																																													
	HC-TOTAL (Total Hydrocarbon)	0.568203	--																																																																													
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>762</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	762	--																																																																								
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	Carbon-Related Exhaust Emissions	762	--																																																																													
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>755.8</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	755.8	--																																																																								
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Manufacturer Test Comments	--																																																																															

Certification Summary Information Report

Test Group		TFMXV05.2VEZ				Evaporative/Refueling Family				TFMXR0130NDE		
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	50,000 miles	Federal Tier 3 Bin 125	CO	2.54	--	--	--	--	--	2.5	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.53	--	--	--	--	--	0.5	0.6	Pass
CA	50,000 miles	California LEV-III ULEV125	CO	2.54	--	--	--	--	--	2.5	10.0	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093115	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	11/13/2025	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	25
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3804	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE																																																																																	
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>666.752454</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>1.808</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>13.338876</td><td>13.338876</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0346508</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.2523752</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>672.959702</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.1547</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>13.286974</td><td>13.286974</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0004802</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0056519</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>531.116074</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.0425</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>16.843634</td><td>16.843634</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0018175</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0076313</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.007915</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.465827</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.01</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.21</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-0.5</td><td>--</td></tr><tr><td>HCHO (Formaldehyde)</td><td>0.0005</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>14.1</td><td>14.1</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.025712</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.051938</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.057158</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0594</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	666.752454	--	CO BAG 1 (Bag 1 Carbon Monoxide)	1.808	--	FE BAG 1 (Bag 1 Fuel Economy)	13.338876	13.338876	CH4 BAG 1 (Bag 1 Methane)	0.0346508	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.2523752	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	672.959702	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.1547	--	FE BAG 2 (Bag 2 Fuel Economy)	13.286974	13.286974	CH4 BAG 2 (Bag 2 Methane)	0.0004802	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0056519	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	531.116074	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.0425	--	FE BAG 3 (Bag 3 Fuel Economy)	16.843634	16.843634	CH4 BAG 3 (Bag 3 Methane)	0.0018175	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0076313	--	METHANE (CH4 - Methane)	0.007915	--	CO (Carbon Monoxide)	0.465827	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.01	--	DT-EER (Drive Trace Energy Economy Rating)	0.21	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.5	--	HCHO (Formaldehyde)	0.0005	--	MFR FE (Manufacturer Fuel Economy)	14.1	14.1	NOX (Nitrogen Oxide)	0.025712	--	HC-NM (Non-methane Hydrocarbon)	0.051938	--	NMOG (Non-methane organic gases)	0.057158	--	HC-TOTAL (Total Hydrocarbon)	0.0594	--		
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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>634</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	634	--																																																																												
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Carbon dioxide	632.7	--																																																																																		
Manufacturer Test Comments	--																																																																																			

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family					TFMXR0130NDE		
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
CA	4,000 miles	California LEV-III ULEV125	CO	0.47	--	--	--	--	--	0.5	2.1	Pass
CA	4,000 miles	California LEV-III ULEV125	HCHO	0.0005	--	--	--	--	--	0.000	0.016	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG	0.0572	--	--	--	--	--	0.057	999.999	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0829	--	--	--	--	--	0.083	0.250	Pass
CA	4,000 miles	California LEV-III ULEV125	NOX	0.0257	--	--	--	--	--	0.026	999.999	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093111	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	12/17/2025	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	26
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5887	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
METHANE (CH4 - Methane)	0.000664	--
CO (Carbon Monoxide)	0.067878	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.118428	--
DT-EER (Drive Trace Energy Economy Rating)	-0.069199	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.220802	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	23.2	23.2
NOX (Nitrogen Oxide)	0.006439	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.000609	--
NMOG (Non-methane organic gases)	0.000672	--
HC-TOTAL (Total Hydrocarbon)	0.001241	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	373	372

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	372.5	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family					TFMXR0130NDE		
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 125	CREE	372	--	--	--	0	--	372	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0007	--	1.03	--	--	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0071	--	--	--	--	--	0.007	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0064	--	--	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0007	--	1.03	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0071	--	--	--	--	--	0.007	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0064	--	--	--	--	--	0.006	999.999	Pass

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

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093112	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	12/17/2025	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	26
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3918	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	756.406237	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.5992	--
FE BAG 1 (Bag 1 Fuel Economy)	11.417609	11.417609
CH4 BAG 1 (Bag 1 Methane)	0.0051746	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0329052	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	448.027416	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.7699	--
FE BAG 2 (Bag 2 Fuel Economy)	19.23976	19.23976
CH4 BAG 2 (Bag 2 Methane)	0.0034258	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.015416	--
METHANE (CH4 - Methane)	0.003814	--
CO (Carbon Monoxide)	0.731981	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.397896	--
DT-EER (Drive Trace Energy Economy Rating)	-0.458693	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.978283	--
MFR FE (Manufacturer Fuel Economy)	16.7	16.7
NOX (Nitrogen Oxide)	0.035245	--
HC-NM (Non-methane Hydrocarbon)	0.018735	--
NMOG (Non-methane organic gases)	0.02066	--
PM (Particulate Matter)	0.001908	--
HC-TOTAL (Total Hydrocarbon)	0.022359	--

Certification Summary Information Report

Test Group		TFMXV05.2VEZ				Evaporative/Refueling Family				TFMXR0130NDE			
Test Result Name				Unrounded Test Result				Verify Calculated CREE/OPT-CREE					
Carbon-Related Exhaust Emissions				517				--					
Test Result Name				Unrounded Test Result				Verify Calculated CO2					
Carbon dioxide				516.5				--					
Manufacturer Test Comments				--									
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 125	PM	0.0019	--	--	--	--	--	0.002	0.006	Pass	
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0207	--	--	--	--	--	0.021	999.999	Pass	
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0352	--	--	--	--	--	0.035	999.999	Pass	
CA	150,000 miles	California LEV-III ULEV125	PM	0.0019	--	--	--	--	--	0.002	0.006	Pass	

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093113	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	01/30/2026	Fuel	N/A
Fuel Batch ID	374-B	Fuel Calibration Number	28
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4050	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)	
METHANE (CH4 - Methane)	0.016642	--	
CO (Carbon Monoxide)	0.692712	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.164403	--	
DT-EER (Drive Trace Energy Economy Rating)	0.163973	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.209571	--	
MFR FE (Manufacturer Fuel Economy)	12.3	12.3	
NOX (Nitrogen Oxide)	0.023096	--	
HC-NM (Non-methane Hydrocarbon)	0.029225	--	
NMOG (Non-methane organic gases)	0.032052	--	
HC-TOTAL (Total Hydrocarbon)	0.047032	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	716	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	715.1	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Fuel Properties			
Fuel Batch ID	374-B	Fuel Calibration Number	25
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	10/31/2025
Fuel Batch Calibration Effective Date	10/31/2025	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	16772
Fuel Net Heat of Combustion (E10) (MJ/kg)	39.012	Fuel Carbon Mass Fraction (E10)	0.823
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.823	Weight Fraction CO2	--
Fuel Batch ID	374-B	Fuel Calibration Number	26
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/01/2025
Fuel Batch Calibration Effective Date	12/01/2025	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	10.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.456	Fuel Carbon Mass Fraction (E10)	0.824
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	376-B	Fuel Calibration Number	11
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	12/17/2025
Fuel Batch Calibration Effective Date	12/17/2025	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	10.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.461	Fuel Carbon Mass Fraction (E10)	0.823
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	374-B	Fuel Calibration Number	28
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/21/2026
Fuel Batch Calibration Effective Date	01/21/2026	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group		TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.454		Fuel Carbon Mass Fraction (E10)	0.832
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--		Weight Fraction CO2	--
Fuel Batch ID	373-B		Fuel Calibration Number	71
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)		Fuel Batch Calibration Date	09/13/2022
Fuel Batch Calibration Effective Date	09/13/2022		Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	9.7		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17898
Fuel Net Heat of Combustion (E10) (MJ/kg)	--		Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828		Weight Fraction CO2	--

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family		TFMXR0130NDE				
Consolidated List of Standards											
Exhaust Standards											
Cert Region		Federal			Cert/In-Use Code		Both				
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 125				
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/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		--	--	--	--	--	--	--	2.1
150,000 miles		CO-COMP		--	--	--	--	--	--	--	4.2
150,000 miles		CREE		--	--	--	--	--	--	0	999.999
150,000 miles		HCHO		--	--	--	--	--	--	--	0.004
150,000 miles		METHANE		--	--	--	--	--	--	--	0.030
150,000 miles		N2O		--	--	--	--	--	--	--	0.010
150,000 miles		NMOG		--	--	1.1	--	--	--	--	999.999
150,000 miles		NMOG+NOX		--	--	--	--	--	1	--	0.125
150,000 miles		NMOG+NOX-COMP		--	--	--	--	--	--	--	0.090
150,000 miles		NOX		--	--	--	--	--	--	--	999.999
150,000 miles		OPT-CREE		--	--	--	--	--	--	0	999.999
150,000 miles		PM		--	--	--	--	--	--	--	0.003
Cert Region		Federal			Cert/In-Use Code		Both				
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 125				
Fuel		Gasoline			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		CREE		--	--	--	--	--	--	0	999.999
150,000 miles		NMOG		--	--	1.03	--	--	--	--	999.999
150,000 miles		NMOG+NOX		--	--	--	--	--	1	--	0.125
150,000 miles		NOX		--	--	--	--	--	--	--	999.999
150,000 miles		OPT-CREE		--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family			TFMXR0130NDE	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
Fuel		Gasoline			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	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/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	--	--	--	--	--	--	--	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.090
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
Fuel		Gasoline			Test Procedure			Fed. fuel 50 F exh.	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	2.1
4,000 miles	HCHO	--	--	--	--	--	--	--	0.016
4,000 miles	NMOG	--	--	--	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.250
4,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family			TFMXR0130NDE	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
Fuel		Gasoline			Test Procedure			US06	
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	NMOG	--	--	--	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.006

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	--	10.0

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	--	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	--	0.6

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			US06	
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	PM	--	--	--	--	--	--	--	0.006

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	TFMXV05.2VEZ		Evaporative/Refueling Family	TFMXR0130NDE	
Evaporative/Refueling Family	TFMXR0130NDE		Cert Region	Federal	
Cert/In-Use Code	Both		Standard Level	Federal Tier 3 Evap	
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000
Evaporative/Refueling Family	TFMXR0130NDE		Cert Region	California + CAA Section 177 states	
Cert/In-Use Code	Both		Standard Level	California LEV-IV Zero Evap (Option 2)	
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.300	0.0000
Evaporative/Refueling Family	TFMXR0130NDE		Cert Region	California + CAA Section 177 states	
Cert/In-Use Code	Both		Standard Level	California LEV-IV Zero Evap (Option 2)	
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0
Evaporative/Refueling Family	TFMXR0130NDE		Cert Region	Federal	
Cert/In-Use Code	Both		Standard Level	Federal Tier 3 Evap	
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0
Evaporative/Refueling Family	TFMXR0130NDE		Cert Region	Federal	
Cert/In-Use Code	Both		Standard Level	Federal Tier 3 Evap	
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000

Certification Summary Information Report

Test Group		TFMXV05.2VEZ		Evaporative/Refueling Family		TFMXR0130NDE	
Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0.0000		
Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.01	0.000		
Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.300	0.0000		
Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.20	0.005		
Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.005		

Certification Summary Information Report

Test Group		TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
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	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		TFMXV05.2VEZ	Evaporative/Refueling Family		TFMXR0130NDE
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		TFMXV05.2VEZ	Evaporative/Refueling Family		TFMXR0130NDE
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
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		

Certification Summary Information Report

Test Group		TFMXV05.2VEZ	Evaporative/Refueling Family		TFMXR0130NDE
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
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	



SECTION 8

Emission Testing Waiver Statements

Refer to Section 14.01.00.00 of Common Section for
Statements of Compliance.



SECTION 8

Emission Testing Waiver Statements and Statements of Compliance

Statement of Compliance for test group TFMXV05.2VEZ

Ford Motor Company's test and production vehicles do not have defeat devices. All AECDs have been declared and described in the application. This test group has been designed and engineered to comply with 40 CFR 86.1809-12 (prohibition of defeat devices), satisfies 40 CFR 86.1844-01 (application submittal requirements for AECDs), and does not utilize alternate emissions control maps that are unique for testing purposes relative to on road operation.

Is the transmission part of any AECD, for example, by receiving outputs from the ECU or providing inputs to the ECU, in any emission control strategy, for example, engine and/or catalyst warm-up?

If yes, please describe, including purpose, entry/exit conditions, actuations, and justifications.

Ford describes the transmission controls and potential interaction effects within the confidential AECD documentation found in section 16.05.00 of the common section area of the application submittals. This documentation covers the purpose, inputs, controlled actions, and justifications. For example, as referenced in the Drive Speed Control section of that document, the transmission can receive requests from the ECU to delay upshifts based on cold engine coolant temperature and/or low inferred catalyst temperature to assist with engine or catalyst warm-up.

Does the transmission behave and perform the same as, or differently than, while on road versus on a dynamometer?

Please explain any differences.

Ford does not attempt to discern whether the vehicle is operating on a dynamometer or on the road. However, there are certain conditions that can cause the transmission to operate differently based on the sensed inputs that may not be encountered during dynamometer testing. For example, when climbing grades or when towing, the transmission will make gear ratio adjustments to compensate against excessive engine lugging and reduced vehicle response. There can also be unique transmission scheduling in different customer selectable drive modes, such as EcoSelect, Sport, Snow, Rock Crawl, etc. The types of conditions that are anticipated to cause transmission adjustments are described in the confidential AECD descriptions located in 16.05.00 of the common section. For customer-selectable drive modes that could reasonably be driven over emission test cycles, Ford evaluates emission performance to assure that these modes meet applicable emission standards.

Special dynamometer test modes are required for certain vehicle technologies such as start/stop and HEVs to assure that fault conditions are not set while operating on two-wheel drive dynamometers. This allows the vehicles to behave normally, as they would on the road, rather than causing default/FMEM actions to occur due to significant wheel speed differences between the front and rear axles.

For additional statements of compliance, please refer to section 14.01.00.00 of the Common Section



SECTION 9

OBD-II System Description

For a description of the OBD System utilized for this Test Group, refer to Section 16.06.00.00 of the Common Section.



SECTION 10

Description of Alternate-Fueled Vehicles

For a description of the Alternate-Fueled vehicles covered by this Test Group, refer to Section 12.00.00.00 (Description of Vehicles Covered by Certificate and Test Parameters) of this Application.



SECTION 11

AECD Description

For a description of the AECDs utilized in this Test Group,
refer to Section 16.00.05.00 of this application,
and 16.05 of the Common Section.



SECTION 12

Description of Vehicles Covered by Certificate and Testing Parameters

12.00.01.00 Common Family Parameters

Test Group: TFMXV05.2VEZ - Engine Config Param 1

Test Group Information :	
Vehicle/Engine Class	LDV
Vehicle Fuel Category	Single Fuel
Operating Fuel 1	Gasoline
Operating Fuel 2	N/A
Engine Displacement (liters)	5.2
SAE net HP @ RPM (98 Ron)	775 @ 7300 RPM
SAE net torque ft-lb @ RPM	640 @ 4250 RPM
VECI - Emission Control System	
Air Aspiration Method	Supercharged
Charge Air Cooler Type	Liquid
Exhaust Gas Recirculation (EGR)	No
Cooled EGR	No
Air injection Type (AIR)	Secondary Air Injection
After-Treatment Type	Three-way catalyst
Fuel Metering System 1	Multipoint/sequential fuel injection
Fuel Metering System 2	N/A
Heated oxygen sensor (HO ₂ S)	Yes
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO ₂ S)	Yes
Feedback Sensor Configuration	WR-HO ₂ S, HO ₂ S
Shift Schedules	See Common Section
EVAP Canister working Capacity	See Common Section
EVAP Canister Bed Volume	See Common Section
Fuel Tank Temperature Profile	See Common Section

Exhaust Certification Code	Evaporative Calibration	Application	Transmission	Leak Check	Vehicle
TCZJH0NA0002	TFMXR0130NDE	50S	Auto-Man-Sel-7	0.020	Mustang Dark Horse SC

Reference Specifications

Spark Plug	Type: CYFS-092Y-PT4 GAP 0.95 +/- 0.05mm	
Ignition Timing °BTDC (No SPOUT connector)	PCM Controlled	
Idle RPM	PCM Controlled	
Target (Base) in Drive (A/C OFF/A/C ON)	700/700	Special conditions which may require idle speeds higher than base are listed below. (See Section 16.05 for descriptions of these strategies):

Potential Idle/Drive Speed Modifier	Function Utilized (Y/N)	Purpose
Low or high air charge temperature	Y	Heater, A/C or engine cooling performance
Low catalyst temperature	Y	Achieve/maintain light off
Low engine coolant temperature	Y	Combustion stability
Low or high ambient temperature	Y	Heater or A/C performance
High transmission oil temperature	Y	Ensure adequate fluid pressure
Low battery voltage	Y	Avoid stalling or no-start
High Alternator load	Y	Preserve battery life and avoid low voltage
High-speed fan operation	N	For engine and A/C condenser cooling
Extended neutral idle time	N	Maintain catalyst temperature
Power steering pressure	N/A	Ensure adequate P/S assistance
High Altitude	N	Maintain air mass flow to avoid stalling
Alternate calibration	Y	Avoid spark plug fouling during plant/dealer handling
Drive Speed Control or Shift Delay	Y	Increase engine speed to improve cabin cooling

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
--------------------	------------------	----------------------	----------------------------	-------------

ELECTRONICS – PCM²**FUEL**

Fuel Injector	Signal from PCM	Fuel Flow	N/A	Static Flow Rate: 416 +/- 25.0 g/min
Regulated Fuel Pressure	Signal from PCM	Fuel Pressure	N/A	44 - 85 PSIG – ERF5
Fuel Pump	Signal from PCM	Fuel Flow	N/A	Nom.Flow Rate:260 L/H (550 kPa-12.0V)
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	Throttle Diameter: 92 mm

Fuel System Control Strategy²

Open loop enrichment for driver torque demand	Throttle Position or Pedal Position or Engine LOAD, and Engine RPM	Air-Fuel Ratio (LAMBSE)	Protection against damage or accident; provides additional power under extended torque demand	See Section 16.00.05.00 for air-fuel calibration (LAMBSE) in function "ol_lam_pwr_a_m" if accelerator pedal is greater than "FN311P" (90%) for "ol_tm_pwr_dly_a_m" seconds. Otherwise, open loop target, "OL_LAM_DES" is 1.00 (stoich). * and the entry conditions in function "FN311P".
Open Loop Delay Timers	Time and Gear	Delay open loop fuel	Allows time for downshift; limit enrichment to unusual conditions	See Section 16.00.05.00 for delay time calibration "FN1311P" and the maximum open-loop count-up time, "ol_tm_pwr_dly_a_m"
Open Loop Enrichment Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either "CAT_MAX" or "CAT_MAX_LO" and "CAT_MAX_HI" and the time delay on CAT_MAX_LO," "CAT_TMR_THRES"

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
Open Loop Enrichment EGO Protection	Inferred Oxygen Sensor	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred EGO temperature to trigger enrichment, "FEGO_MAX"
Open Loop Enrichment Engine/Exhaust Manifold Protection	Temperature Inferred Exhaust Manifold Flange Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred exhaust flange temperature, "FLN_MAX" or "FLN_MAX_LO" and "FLN_MAX_HI" and the time delay on FLN_MAX_LO, "FLN_TMR_THRES"
Open Loop Enrichment following Deceleration Fuel Shut-Off (DFSO)	Injector state, inferred catalyst O ₂ stored, and CMS voltage	Air-Fuel Ratio (LAMBSE)	Substantially demonstrated on FTP	See Section 16.00.05.00 for air-fuel ratio utilized following fuel shut-off event, "LAM_REACT"
<u>CRANKCASE</u> PCV Valve	Manifold Vacuum	Air Flow to Engine	Operates in FTP	3.50 – 5.10 SCFM @ 3" Hg 2.60 – 3.60 SCFM @ 8" Hg 1.30 – 1.80 SCFM @ 15" Hg
PCV-Not Heated	Ambient Temp Battery Voltage	PCV Heating	Vehicle Safety	N/A
EGR – N/A				

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
<u>VCT Control Strategy</u>				
Cam timing based on requested torque and percent torque	Requested Torque, Percent Torque, Engine Speed, and Load	Cam Phase Timing	VCT optimized for fuel efficiency within constraints of combustion stability, driveability, emissions, and vacuum limitations	See Section 16.00.05.00 for "hdfcfg_ix_fe_v" Best FE mapped points in combination with "FNHDFX_BEST_FE_DIST" (eng_spd, load) and "FNHDFX_BEST_DRIVE_DIST" (eng_spd, pct_load) distances.
Cam Timing Limitation for Combustion Stability	Requested Torque and Engine Speed	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"
Cam Actuator Limitation for Oil Temperature	Oil Temperature; or Time-since-start and ECT-at-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "FNHDFX_FNEOT_ADV_INT" and "FNHDFX_FNEOT_EXH"
Cam Actuator Limitation for start-up	Engine Coolant Temp. at start and time-since-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "fnvct_enable_delay" and "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"
Cam Retard Limitation under Hi Torque Demand n	Engine Speed and Requested Torque	Cam Phase Timing or Throttle Position	Protection against damage or accident under high torque demand	See Section 16.00.05.00 for Contained within the Best FE, Best Drv noted above and the Optimal Performance "FN_HDFX_OP_IVO" and "FN_HDFX_OP_EVC" calibrations.
Cam Actuator Limitation for ACT Effects	Air Charge Temperature	Cam Phase Timing	Protection against damage or accident by maintaining combustion stability	See Section 16.00.05.00 for "FNHDFX_VCTLIM_EXH"
<u>ENGINE COOLING</u>				
Thermostat	Coolant Temperature	Coolant Flow	Engine Protection	Start to Open: A - 90.0° C B - 93.5° C

1 – Justification provided for AECD systems (i.e. sense operating conditions and control the function of an emission component) and not for the individual components.

2 – See Section 16.05 for Strategy Control Systems descriptions

3 – "FTP" represents all tests required for certification

* – indicates that ending characters on some parameter names may vary

2026 MY Exhaust Emissions Parts List
Test Group: TFMXV05.2VEZ

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
MUSTANG DARK HORSE SC	Initial	TCZJH0NA0002	TCZJH0NA05	PTR3A-12A650-BFC	01/20/2026

****ALL OTHER EXHAUST EMISSION PARTS****

Engine Family: TFMXV05.2VEZ

2026MY5.2L MUSTANG DARK HORSE SC

<u>Part Name</u>	<u>Part Number</u>	<u>Comments</u>
Camshaft Position Sensor Assembly	KR3A-12K073-AB	
Catalyst	TR3V-5E212-BA TR3V-5E213-BA	
Charge Air Cooler	KR3E-6K775-DB	
Crank Position Sensor	SR3A-6C315-AA	
Cylinder Head Temp Sensor	9L8A-6G004-BC JL3A-6G004-AA	
Electronic Throttle Body	NR7E-9F991-AA	
Engine Coolant Temperature Sensor	JL3A-12A648-BA	
Fuel Injector (PFI)	KR3E-9F593-AA	
Heated Air/Fuel Sensor (WR-HO2S)	TR3A-9Y460-AA TR3A-9Y460-BA	
Heated Oxygen Sensor (CMS)	TR3A-9G444-AA TR3A-9G444-BA	
Integrated Fuel Pressure Sensor (Low Pressure)	HX7G-9G756-AC	
Knock Sensor	AL3A-12A699-BB	
Manifold Absolute Pressure Sensor	K2GA-9F479-BB	
PCV Valve	KR3E-6A666-CA	
Secondary Air Injector Pump Assembly	TR3V-9S495-BA	
Secondary Air Tube & Pressure Sensor	TR3V-9P473-CA TR3V-9P473-DA	
Secondary Air Tube & Valve Asy	TR3E-9J454-BA2 TR3E-9J454-DB TR3E-9J454-FA TR3E-9J454-GA	
Supercharger	NR7E-6F066-AA	
VCT Solenoid	BR3E-6B297-DF	
Fuel Pump Low Pressure	KR3V-9350-TB	
Intake Air Temperature Sensor (IAT)	DS7A-12A697-AA	

2026 TEST VEHICLE REQUIREMENTS

	Exhaust Emission Vehicle	Evaporative Emission Vehicle	Evaporative Emission Vehicle
Test Group	TFMXV05.2VEZ	RFMXV02.3VJY	RFMXV05.0VKN
Evap Emission Family	TFMXR0130NDE	RFMXR0130NDE	RFMXR0130NDE
Displacement	5.2L	2.3L	5L
Engine Code	TCZJH0NA00	RCZJN3ND01	RCZJMFND00
Fuel Tank Capacity	16.1 Gal	16.1 Gal	16.1 Gal
Exhaust Control System	TWC/WR-HO2S/HO2S/SC/CAC/AIR/SFI	TWC/HO2S/WR-HO2S/CAC/EGR/EGRC/T C/DFI/SFI	TWC/HO2S/SFI/WR-HO2S/DFI
Model	Mustang Dark Horse SC	MUSTANG PERFORMANCE PACK	Mustang
Transmission	Auto-Man-Sel-7	Auto-10	Semi-Auto-10
Equivalent Test Weight	4500.0	4250.0	4500.0
Curb Weight	4249.0	3920.0	4113.0
GVWR	5070.0	4705.0	4860.0
THP/DPA	18.7 / f0=52.05, f1=0.3369, f2=0.02848	14.6 / f0=42.12, f1=0.0191, f2=0.02643	17.2 / f0=47.89, f1=0.4442, f2=0.02369
Axle Ratio	3.55	3.55	3.55
N/V Ratio - RPM/MPH	28.5	29.0	30.0
Tires	305/30/ZR20 (F), 315/30/ZR20 (R)	255/40R19	305/30R19 (F), 315/30R19 (R)
Vehicle ID No	TZG1-5.2-J-327	564W749	PZJ1-5.0-J-660
Configuration Number	0	0	0
Model Year	2026	2024	2024

Vehicle Description Report

Test Group: TFMXV05.2VEZ

ID Number	5300409	5300410
Displacement	5.2	5.2
Cert Code	TCZJH0NA0002	TCZJH0NA0002
Fuel Tank(s)	M	M
Carline	MUSTANG DARK HORSE SC	MUSTANG DARK HORSE SC
Wheel Configuration	Standard	Standard
Body Style	Coupe	Coupe
Wheelbase	107.1	107.1
Transcode Combo	GH	GH
Curb Weight	4090	4249
ETW	4500	4500
Loaded Weight LVW	4390	4549
ALVW-ETW	4250	4750
Adj. Loaded Weight	4365	4660
GVWR	4640	5070
GCWR	0	0
Min Axle Ratio	3.73	3.73
Max Axle Ratio	3.73	3.73
Min N/V Ratio	26.4	26.4
Max N/V Ratio	26.4	26.4
Emission Vehicle Class	LDV	LDV
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Automated Manual - Selectable	Automated Manual - Selectable
Calibration Application	50ST	50ST
Min Tire Size	315/30R20 - 26.4	315/30R20 - 26.4
Max Tire Size	315/30R20 - 26.4	315/30R20 - 26.4
Alt Tire 1		
Alt Tire 2		
Alt Tire 3		
Alt Tire 4		
Alt Tire 5		
Alt Tire 6		
Alt Tire 7		
DAW Full Tank	1808	1883
DAW Empty Tank	1726	1801



SECTION 14

Request for Certification



Environmental & Safety Compliance
Ford Motor Company

Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W-200
Allen Park, Michigan 48101-2053

Ms. Hannah Frame
Certification Division
Mobile Source Pollution Control
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

February 27, 2026

Dear Ms.Frame:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year Light-duty vehicles (LDVs) contained in Ford's 50 states test group TFMXV05.2VEZ and evaporative emission family TFMXR0130NDE. The test fuel used is E10.

The EPA Final Tier 3 certification and in-use exhaust emission standards applicable to this test group are:

Certification & In-Use FTP Standards (g/mi)	Useful Life	NMOG+NOx (g/mi)	CO (g/mi)	PM (g/mi)	HCHO (g/mi)	N2O (g/mi)	CH4 (g/mi)
Federal Tier 3 Bin 125	150K	0.125	2.1	0.003	0.004	0.010	0.030

This test group also meets the Cold NMHC Family Emission Limit (FEL) of 0.6 gm/mi as part of the compliance plan to meet the corporate fleet average cold NMHC Federal standards. In addition, this test group meets the SFTP NMOG+NOx Composite Family Emission Limit (FEL) of 0.090 g/mi and CO FEL of 4.2 g/mi.

The EPA Tier 3 certification and in-use evaporative emission standards applicable to this test group are:

Tier 3	Useful Life	Hot Soak + 2-day diurnal (g/test)	Hot Soak + 3-day diurnal (g/test)	Running Loss (g/mi)	ORVR (g/gal)	BETP (g/test)
Evaporative Standards TFMXR0130NDE	150K	0.300	0.300	0.05	0.20	0.020

The Fuel Spitback standard is 1.0 gram per test for this Testgroup.

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out 1, subject: Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2025 model year gasoline powered light-duty vehicles (LDVs) contained in Ford's 50 states test group, dated July 3, 2025. Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85 including the provisions of 86 and 600,, Ford requests that a Certificate of Conformity be issued for the LDV test group listed in this Application for Certification.

Please contact David Perez at 524921718199 or dperez92@ford.com, if you have any questions regarding this submission.

Sincerely

DocuSigned by:
Jeff Glodich
5DAF4A8B9BF6498...

Jeffrey Glodich,
Specialty Manager - Light Duty
Certification and Compliance



Environmental & Safety Compliance
Ford Motor Company

Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W-200
Allen Park, Michigan 48101-2053

Ms. Robin U. Lang
Emissions Certification and Compliance Division
Air Resources Board
4001 Iowa Avenue
Riverside, California 92507

February 27, 2026

Dear Ms.Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year Light-duty vehicles (LDVs) contained in Ford's 50 states test group TFMXV05.2VEZ and evaporative emission family TFMXR0130NDE. The test fuel used is E10.

This application aligns with CARB's Manufacturers Advisory Correspondence (MAC) ECCD-2025-8 alternate pathway (1) described on page 2 as follows:

(1) An approved application for CARB certification to the vehicle and engine emission regulations that immediately preceded those covered by the waivers that were targeted by the congressional resolutions.

Ford intends submittal of this certification to facilitate CARB's review in order to ensure timely certification of Ford's vehicles as may be needed in accordance with applicable requirements. Ford is reserving its rights with regard to determining what requirements apply and which requirements can be enforced by CARB.

The FTP certification and in-use standards applicable to this test group for vehicle offered in California are as follows:

Certification & In-Use FTP Standards (g/mi)	Useful Life	NMOG+NOx (g/mi)	CO (g/mi)	PM (g/mi)	HCHO (g/mi)
California LEV-III ULEV125	150K	0.125	2.1	0.003	0.004

This test group meets the SFTP NMOG+NOx Composite Family Emission Limit (FEL) of 0.090 g/mi

The evaporative certification and in-use standards applicable to this test group are as follows:

LEV IV	Useful Life	Hot Soak + 2-day diurnal (g/test)	Hot Soak + 3-day diurnal (g/test)	Running Loss (g/mi)	ORVR (g/gal)	BETP (g/test)
Evaporative Standards TFMXR0130NDE	150K	0.300	0.300	0.01	0.20	0.020

The Fuel Spitback standard is 1.0 gram per test for this Testgroup.

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I application for certification has been prepared in accordance with the standardized format

recommended by EPA via its mail out 1, subject: Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2025 model year gasoline powered light-duty vehicles (LDVs) contained in Ford's 50 states test group, dated July 3, 2025. This Application has also been prepared in accordance with the California Air Resources Board, Final Regulation Order, Amendments to Sections 1960.1, 1960.5, 1961, and 1962 Title 13, California Code of Regulations (As Amended August 4, 2005). Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85 including the provisions of 86 and 600, Ford requests that an Executive Order be issued for the LDV test group listed in this Application for Certification.

Please contact David Perez at 524921718199 or dperez92@ford.com, if you have any questions regarding this submission.

Sincerely

DocuSigned by:
Jeff Glodich
5DAF4A8B9BF6498...

Jeffrey Glodich,
Specialty Manager - Light Duty
Certification and Compliance

cc: S. Mustafa
cc: M. Desai



SECTION 15

Other Information

15.00.00.00



SAP Manual Payment Request

(North America)

REF NO:

306181



NAME AND ADDRESS OF PAYEE

Employee

Ex-Employee / Board of Director

Company Code

Separate Check

Special Handling/ Instruction Key in S4

Environmental Protection Agency-MVECP

U.S. Bank - Government Lockbox 979032

1300 Pennsylvania Ave NW - Washington DC 20004-3002

The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically/ACH.

Supplier Code

Due Date / Baseline Date

Currency

Amount

GXHSA

ASAP

USD

197,634.00

REASON FOR DISBURSEMENT

CERTIFICATION FEES - EPA STANDARD ENGINE FAMILY, EXHAUST EMISSION CONTROL SYSTEM

Alternate Name & Address

COMMENTS (Shown on Remittance Advice/Not to include PII)

2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)

GL Account	Profit Center	Cost Center	Internal Order	Reference Key1	Reference Key2	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
63044030	2000005001	1000017919				306181	7/7/2025	197,634.00	N
								-	
							TOTAL	197,634.00	

Pre-requisites for Payment :

1.

Requestors or Approvers to ensure the following

- Receipt of Service

- Price Validation

- Supported by invoice or other documentation

2.

Uses of Manual Payment Requests

3.

Corporate Approval Authorities - Method of Payment

TYPE OF INVOICE:

MANUAL PAYMENT REQUEST -PERMISSIBLE USES (use drop down with Alt+down arrow key):

Uses of Manual Payment Requests

Not in Uses of Manual Payment Request

Requestor

CDS ID

Date

Preparer/Requestor

TOLIVER

7/7/2025

Operations Approval - Receipt of Service

CDS ID

Sign

Date

Operations Approval

LMERRIT2

Lawrence Merritt

7/7/2025

DE6ED4749EAC46B

Approvals per Corporate Approval Authorities - Method of Payment

Payment Item is on Uses of Manual Payment Requests

CDS ID

Sign

Date

Finance LL6+ Unlimited

PBLANCAS

9B61ABEC83D24AA

7/7/2025

Payment Item is NOT on Uses of Manual Payment Requests

CDS ID

Sign

Date

Finance LL5+ Unlimited

It is important to protect personal data when retaining and forwarding this Payment Authorization Form and attachments, if any. Every effort must be made to prevent exposure.

The space below may be used for additional local requirements

May 2025 North American Check Request Form (Previous editions without the above fields may NOT be used)

Note: Approved forms can be sent to NAPAP@ford.com for processing

US EPA Fee Form

David Perez

[Help and EPA Instructions](#)**Tracking Information**

Pay.gov Tracking ID: 27P0UFE7

Agency Tracking ID: 77075547553

* Required Field

General Information**Date:** 06/18/2025**Process Code ***

Submit New Fee Filing Form

Manufacturer Code *

FMX

Manufacturer Name *

Ford Motor Company

Contact Name *

Tina Oliver

Contact Email Address *

toliver@ford.com

Contact Phone *

313-323-8938

Calendar Year complete application submitted to EPA *

2025

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2025, through December 31, 2025. The applicable fee is determined by the

year.

Engine Family / Evaporative Family / Test Group *

TFMXV05.2VEZ

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? *

No

Payment Information

Amount Owed

\$32,939.00

Payment Type *

Offline ACH

Comments

David G. Perez Sifuentes.52L

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

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.

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).



SECTION 16

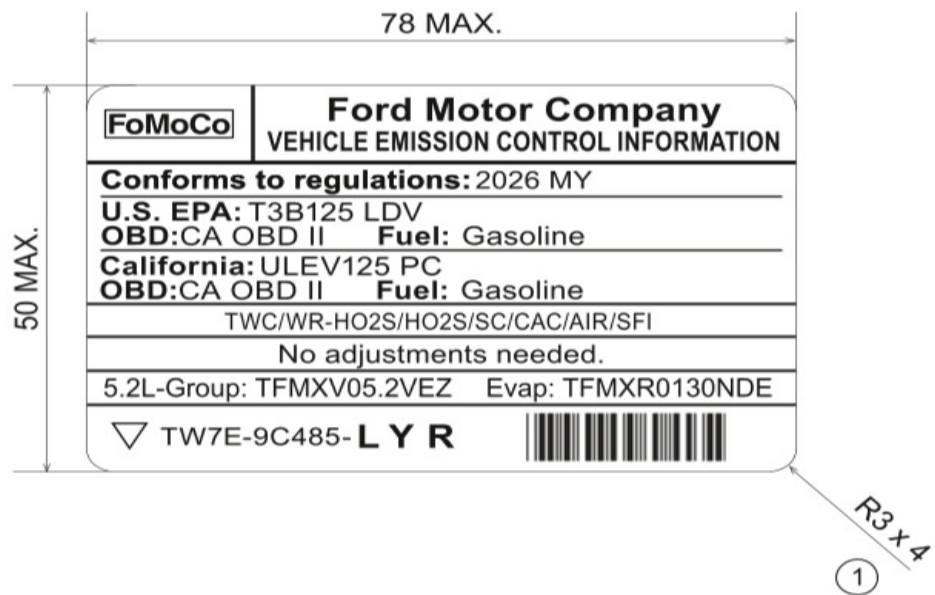
Confidential Information



SECTION 17

California ARB Requirements

TFMXV05.2VEZ





SECTION 18

Revisions

18.00.00.00

APPLICATION REVISIONS

TFMXV05.2VEZ

<u>NO.</u>	<u>DATE</u>	<u>PAGE(S)</u>	<u>DESCRIPTION</u>
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