

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		
					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: TFMXV05.2GTD
Durability Group: TFMXGPGNND6A
Evap. Families: TFMXR0130NDE

Test Group Description: 5.2 Liter, V8 SC, LDV

Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled, Super Charged, Catalyst Code D

Applicable Standards:

Federal Exhaust –	Tier 3 Bin 125
Federal Evap –	Tier 3
California Exhaust –	LEV IV Interim ULEV125
California Evap –	LEV IV
Cold NMHC FEL –	0.6 g/mi
CH4 –	0.030 g/mi
N2O –	0.010 g/mi
Particulate Matter –	0.003 g/mi
SFTP FEL –	0.070 g/mi

Carlines Covered: MUSTANG GTD

Vehicles Tested:

Exhaust Emissions Vehicle: SZG1-5.2-J-145 (Config 0)		Evaporative Emissions Vehicle: PZJ1-5.0-J-660 (Config 0)	
FTP TN:	SFMX10087546	2Day TN:	RFMX10078667
HWY TN:	SFMX10087548	3Day TN:	RFMX10078668
US06 TN:	SFMX10087551	ORVR TN:	RFMX10078666
SC03 TN:	SFMX10087550	RL TN:	RFMX10078669
Cold CO TN:	SFMX10087549	Linking TN:	RFMX10078664
		564W749 (Config 0)	
		BETP TN:	RFMX10078670

Release Date: December 8th, 2025

For Questions, Contact:
Terry Cowher, tcowher@ford.com (313) 805-6360

Test Group: TFMXV05.2GTD
Issue Date: 07/02/2025
Revised Date:



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**
 - 17.00.01.00 Certification Review Sheet
 - 17.00.02.00 Supplemental Data Sheet
 - 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

Evaporative Family and Calibration Parameters

Evaporative Family Name: TFMXR0130NDE

2026 5.2L SC Mustang GTD

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Capless Refueling Component LU5A-9D000-CC	None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	
Fuel Limiting Vent Valve (FLVV) SR3V-9B190-SA	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	Orifice Diameter: 10.2mm
Grade Vent Valve (GVV) FR3C-9B593-BB	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	Main Orifice Diameter: 1.78mm Bleed Orifice Diameter: 0.50mm
Fuel Tank Pressure Sensor 9U5A-9C052-BC	Fuel Tank Vapor Pressure	None	Operates in FTP	
Carbon Canister GU5A-9D653-AD	None	Fuel Vapor	Operates in EVAP and/or ORVR	130g BWC 1.9L Total Volume (includes 0.1L Bleed Element)
Fuel Vapor Recirculation Hose 200116-13-1360 AE 200116-13-1360 AF (Alt.)	None	Vapor Recirculation	Operates in ORVR	Orifice Diameter: 2.5mm
Canister Purge Valve EU5A-9G866-BD	Signal from PCM	Vacuum to canister	Operates in FTP	85 SLPM
Air Induction System (AIS) Hydrocarbon Trap NR3V-9G723-AA	None	AIS Fuel Vapor	Operates in EVAP	



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	TFMXV05.2GTD	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	07/16/2025 10:22:15 AM
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	TFMXGPGNND6A	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 and penalty	Number of Test Group OBD Deficiencies	4
OBD Deficiencies Comments	--		
Mfr Test Group Comments	E10 City Litmus Value: 9.8, City Litmus Threshold: 9.4, Hwy Litmus Value 16.0, Hwy Litmus Threshold: 13.8		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TFMXV05.2GTD	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	14 - MUSTANG GTD	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	Yes
Ford Motor Company	1 - Ford	14 - MUSTANG GTD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--				
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	V8 5.2 Liter SC				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 5W-50 / API SN				
Number of Cylinders/Rotors	8	Mechanically Variable Compression Ratio Indicator	N				

Certification Summary Information Report

Test Group		TFMXV05.2GTD		Evaporative/Refueling Family		TFMXR0130NDE					
After Treatment Device(s) (ATD)											
ATD Number		ATD Type		ATD Precious Metal		Substrate Material		Substrate Construction			
1		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith			
2		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith			
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		800					
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		Secondary Air Injection		Air Injection Type if 'Other'		--					
Mfr Engine Configuration Comments		--									
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	SFMX10087546	SFMX10087551	SFMX10087550	SFMX10087549	SFMX10087548	11.4	228.2	21.8	286.1	--	

Certification Summary Information Report

Test Group	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	SFMX10087546	SFMX10087551	SFMX10087550

Certification Summary Information Report

Test Group	TFMXV05.2GTD	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	TFMXV05.2GTD	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	TFMXV05.2GTD	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		TFMXV05.2GTD			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	TFMXV05.2GTD	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	TFMXV05.2GTD	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	TFMXV05.2GTD	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	TFMXV05.2GTD	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												
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0.004</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.004</td> <td>--</td> </tr> </tbody> </table>				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	--
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				

Test Group	TFMXV05.2GTD	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	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE						
Emission Data Vehicle Information									
Vehicle ID / Configuration	SZG1-5.2-J-145 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SFMXV05.2GTD	Original Evaporative/Refueling Family	SFMXR0130NDE						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Mustang GTD						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SFMXR0130NDE-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	SCGKH0NA00	Rated Horsepower	800						
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)	4343	Equivalent Test Weight (pounds)	4750						
GVWR (lbs)	4800	N/V Ratio	28.3						
Axle Ratio	3.55								
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	8						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	TFMXV05.2GTD			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	59.58	0.528	0.02965	16.31	-0.192	0.03288	21.3
Cold CO	59.58	0.528	0.02965	16.31	-0.192	0.03288	N/A
US06	59.58	0.528	0.02965	16.31	-0.192	0.03288	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. MPR Cable is located in the center console						

Certification Summary Information Report

Test Group	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE
Test #	SFMX10087546	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	08/10/2024	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	16
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4655	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)	781.050278	--
FE BAG 1 (Bag 1 Fuel Economy)	11.149233	11.149233
CO2 BAG 2 (Bag 2 Carbon Dioxide)	791.77807	--
FE BAG 2 (Bag 2 Fuel Economy)	11.033285	11.033285
CO2 BAG 3 (Bag 3 Carbon Dioxide)	618.059681	--
FE BAG 3 (Bag 3 Fuel Economy)	14.13524	14.13524
METHANE (CH4 - Methane)	0.005476	--
CO (Carbon Monoxide)	0.446975	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.583689	--
DT-EER (Drive Trace Energy Economy Rating)	-0.028917	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.02395	--
HCHO (Formaldehyde)	0.000655	--
MFR FE (Manufacturer Fuel Economy)	11.8	11.8
NOX (Nitrogen Oxide)	0.026556	--
N2O (Nitrous Oxide)	0.0012	--
HC-NM (Non-methane Hydrocarbon)	0.019603	--
NMOG (Non-methane organic gases)	0.021477	--
PM (Particulate Matter)	0.0004	--
HC-TOTAL (Total Hydrocarbon)	0.025461	--

Certification Summary Information Report

Test Group	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE									
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CREE/OPT-CREE</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>743</td><td>999</td></tr><tr><td>Optional Carbon-Related Exhaust Emissions</td><td>743</td><td>999</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	743	999	Optional Carbon-Related Exhaust Emissions	743	999		
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE									
	Carbon-Related Exhaust Emissions	743	999									
	Optional Carbon-Related Exhaust Emissions	743	999									
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>741.8</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	741.8	--					
Test Result Name	Unrounded Test Result	Verify Calculated CO2										
Carbon dioxide	741.8	--										
Manufacturer Test Comments	--											

Certification Summary Information Report

Test Group		TFMXV05.2GTD				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	0.45	--	--	--	--	--	0.4	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.50	--	--	--	--	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	HCHO	0.0007	--	--	--	--	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.0055	--	--	--	--	--	0.006	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	N2O	0.0012	--	--	--	--	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0215	--	1.1	--	--	--	0.022	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0481	--	--	--	--	--	0.048	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0569	--	--	--	--	--	0.057	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0266	--	--	--	--	--	0.027	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	OPT-CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0004	--	--	--	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.45	--	--	--	--	--	0.4	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	HCHO	0.0007	--	--	--	--	--	0.001	0.004	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0215	--	1.1	--	--	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0481	--	--	--	--	--	0.048	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0266	--	--	--	--	--	0.027	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	PM	0.0004	--	--	--	--	--	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	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE
Test #	SFMX10087549	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	08/15/2024	Fuel	Gasoline
Fuel Batch ID	376-B	Fuel Calibration Number	8
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4674	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)	928.158473	--
FE BAG 1 (Bag 1 Fuel Economy)	9.132644	9.132644
CO2 BAG 2 (Bag 2 Carbon Dioxide)	873.824856	--
FE BAG 2 (Bag 2 Fuel Economy)	9.882754	9.882754
CO2 BAG 3 (Bag 3 Carbon Dioxide)	707.796707	--
FE BAG 3 (Bag 3 Fuel Economy)	12.194223	12.194223
METHANE (CH4 - Methane)	0.034027	--
CO (Carbon Monoxide)	1.706355	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.703596	--
DT-EER (Drive Trace Energy Economy Rating)	-0.397684	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.31794	--
MFR FE (Manufacturer Fuel Economy)	10.2	10.2
NOX (Nitrogen Oxide)	0.041635	--
HC-NM (Non-methane Hydrocarbon)	0.3919	--
NMOG (Non-methane organic gases)	0.430766	--
HC-TOTAL (Total Hydrocarbon)	0.42834	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	843	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	839.5	--

Certification Summary Information Report

Test Group		TFMXV05.2GTD				Evaporative/Refueling Family				TFMXR0130NDE			
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	50,000 miles	Federal Tier 3 Bin 125	CO	1.71	--	--	--	--	--	--	1.7	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.39	--	--	--	--	--	--	0.4	0.6	Pass
CA	50,000 miles	California LEV-IV ULEV125	CO	1.71	--	--	--	--	--	--	1.7	10.0	Pass

Certification Summary Information Report

Test Group	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE
Test #	SFMX10087548	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	07/25/2024	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	14
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4548	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)	0.000858	--
CO (Carbon Monoxide)	0.074743	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.93138	--
DT-EER (Drive Trace Energy Economy Rating)	0.317042	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.21611	--
MFR FE (Manufacturer Fuel Economy)	19.7	19.7
NOX (Nitrogen Oxide)	0.050048	--
N2O (Nitrous Oxide)	0.001	--
HC-NM (Non-methane Hydrocarbon)	0.00049	--
NMOG (Non-methane organic gases)	0.000505	--
HC-TOTAL (Total Hydrocarbon)	0.001305	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	442	999
Optional Carbon-Related Exhaust Emissions	442	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	442.1	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		TFMXV05.2GTD				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	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0005	--	1.03	--	--	--	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0505	--	--	--	--	--	0.050	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0500	--	--	--	--	--	0.050	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	OPT-CREE	999	--	--	--	0	--	999	--	--
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0005	--	1.03	--	--	--	0.000	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0505	--	--	--	--	--	0.050	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0500	--	--	--	--	--	0.050	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	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE
Test #	SFMX10087551	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	07/25/2024	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	14
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4580	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)	817.62155	--	
FE BAG 1 (Bag 1 Fuel Economy)	10.635152	10.635152	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	491.129041	--	
FE BAG 2 (Bag 2 Fuel Economy)	17.707422	17.707422	
METHANE (CH4 - Methane)	0.006662	--	
CO (Carbon Monoxide)	0.740575	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.13095	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.114384	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.45895	--	
MFR FE (Manufacturer Fuel Economy)	15.4	15.4	
NOX (Nitrogen Oxide)	0.0511	--	
HC-NM (Non-methane Hydrocarbon)	0.028609	--	
NMOG (Non-methane organic gases)	0.029467	--	
PM (Particulate Matter)	0.00205	--	
HC-TOTAL (Total Hydrocarbon)	0.034941	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	564	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	563.3	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		TFMXV05.2GTD			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	0.7406	--	--	--	--	--	0.741	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0295	--	1.03	--	--	--	0.030	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0511	--	--	--	--	--	0.051	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0020	--	--	--	--	--	0.002	0.006	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.74	--	--	--	--	--	0.7	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0295	--	1.03	--	--	--	0.030	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0806	--	--	--	--	--	0.081	0.150	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0511	--	--	--	--	--	0.051	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	PM	0.0020	--	--	--	--	--	0.002	0.006	Pass

Certification Summary Information Report

Test Group	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE
Test #	SFMX10087550	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	08/08/2024	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	16
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4641	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)	0.010215	--
CO (Carbon Monoxide)	0.355645	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.423345	--
DT-EER (Drive Trace Energy Economy Rating)	-0.069557	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.125148	--
MFR FE (Manufacturer Fuel Economy)	11.2	11.2
NOX (Nitrogen Oxide)	0.032505	--
HC-NM (Non-methane Hydrocarbon)	0.014274	--
NMOG (Non-methane organic gases)	0.014702	--
HC-TOTAL (Total Hydrocarbon)	0.025203	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	779	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	777.5	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		TFMXV05.2GTD				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	150,000 miles	California LEV-IV ULEV125	CO	0.36	--	--	--	--	--	0.4	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0147	--	1.03	--	--	--	0.015	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0472	--	--	--	--	--	0.047	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0325	--	--	--	--	--	0.032	999.999	Pass

Certification Summary Information Report

Test Group	TFMXV05.2GTD	Evaporative/Refueling Family	TFMXR0130NDE
Fuel Properties			
Fuel Batch ID	376-B	Fuel Calibration Number	8
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	07/14/2022
Fuel Batch Calibration Effective Date	07/14/2022	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	0.743
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17927
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--
Fuel Batch ID	374-B	Fuel Calibration Number	14
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	04/01/2024
Fuel Batch Calibration Effective Date	04/01/2024	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	0.752
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17927
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	374-B	Fuel Calibration Number	16
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/29/2024
Fuel Batch Calibration Effective Date	07/29/2024	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 (%)	9.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17887
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	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

Certification Summary Information Report

Test Group	TFMXV05.2GTD	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	0.753
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		TFMXV05.2GTD			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	--	--	--	--	--	--	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	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-IV 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

Certification Summary Information Report

Test Group		TFMXV05.2GTD			Evaporative/Refueling Family			TFMXR0130NDE	
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		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV 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	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
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-IV ULEV125	
Fuel		Gasoline			Test Procedure			SC03	
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	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		TFMXV05.2GTD			Evaporative/Refueling Family			TFMXR0130NDE	
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
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	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	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-IV 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	CO	--	--	--	--	--	--	--	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.150
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.006

Certification Summary Information Report

Test Group	TFMXV05.2GTD			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-IV 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

Evaporative/Refueling Standards

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		

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	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		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		

Certification Summary Information Report

Test Group		TFMXV05.2GTD		Evaporative/Refueling Family		TFMXR0130NDE	
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		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		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		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		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		TFMXV05.2GTD		Evaporative/Refueling Family		TFMXR0130NDE	
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					

Certification Summary Information Report

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

Certification Summary Information Report

Test Group		TFMXV05.2GTD		Evaporative/Refueling Family		TFMXR0130NDE	
CA	California + CAA Section 177 states			FA	Federal		
Exhaust Emission Standard Level							
B1	Federal Tier 2 Bin 1			T3B160	Federal Tier 3 Bin 160		
B2	Federal Tier 2 Bin 2			T3B125	Federal Tier 3 Bin 125		
B3	Federal Tier 2 Bin 3			T3B110	Federal Tier 3 Transitional Bin 110		
B4	Federal Tier 2 Bin 4			T3B85	Federal Tier 3 Transitional Bin 85		
B5	Federal Tier 2 Bin 5			T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		
B6	Federal Tier 2 Bin 6			T3B70	Federal Tier 3 Bin 70		
B7	Federal Tier 2 Bin 7			T3B50	Federal Tier 3 Bin 50		
B8	Federal Tier 2 Bin 8			T3B30	Federal Tier 3 Bin 30		
B9	Federal Tier 2 Bin 9			T3B20	Federal Tier 3 Bin 20		
B10	Federal Tier 2 Bin 10			T3B0	Federal Tier 3 Bin 0		
B11	Federal Tier 2 Bin 11			HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395		
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340		
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)			HDV2B250	Federal Tier 3 HD Class 2b Bin 250		
L2	California LEV-II LEV			HDV2B200	Federal Tier 3 HD Class 2b Bin 200		
L2OP	California LEV-II LEV Optional			HDV2B170	Federal Tier 3 HD Class 2b Bin 170		
U2	California LEV-II ULEV			HDV2B150	Federal Tier 3 HD Class 2b Bin 150		
S2	California LEV-II SULEV			HDV2B0	Federal Tier 3 HD Class 2b Bin 0		
ZEV	California ZEV			HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630		
OT	Other			HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570		
T1	Federal Tier 1			HDV3B400	Federal Tier 3 HD Class 3 Bin 400		
PZEV	California PZEV			HDV3B270	Federal Tier 3 HD Class 3 Bin 270		
L2LEV160	California LEV-II LEV160			HDV3B230	Federal Tier 3 HD Class 3 Bin 230		
L2ULEV125	California LEV-II ULEV125			HDV3B200	Federal Tier 3 HD Class 3 Bin 200		
L2SULEV30	California LEV-II SULEV30			HDV3B0	Federal Tier 3 HD Class 3 Bin 0		
L2LEV395	California LEV-II LEV395			L4SULEV100	California LEV-IV SULEV100		
L2ULEV340	California LEV-II ULEV340			L4SULEV125	California LEV-IV SULEV125		
L2LEV630	California LEV-II LEV630			L4SULEV15	California LEV-IV SULEV15		
L2ULEV570	California LEV-II ULEV570			L4SULEV150	California LEV-IV SULEV150		
L3LEV160	California LEV-III LEV160			L4SULEV170	California LEV-IV SULEV170		
L3ULEV125	California LEV-III ULEV125			L4SULEV175	California LEV-IV SULEV175		
L3ULEV70	California LEV-III ULEV70			L4SULEV20	California LEV-IV SULEV20		
L3ULEV50	California LEV-III ULEV50			L4SULEV200	California LEV-IV SULEV200		
L3SULEV30	California LEV-III SULEV30			L4SULEV230	California LEV-IV SULEV230		
L3SULEV20	California LEV-III SULEV20			L4SULEV25	California LEV-IV SULEV25		
L3LEV395	California LEV-III LEV395			L4SULEV30	California LEV-IV SULEV30		
L3ULEV340	California LEV-III ULEV340			L4SULEV75	California LEV-IV SULEV75		
L3ULEV250	California LEV-III ULEV250			L4SULEV85	California LEV-IV SULEV85		
L3ULEV200	California LEV-III ULEV200			L4ULEV125	California LEV-IV ULEV125		

Certification Summary Information Report

Test Group		TFMXV05.2GTD		Evaporative/Refueling Family		TFMXR0130NDE	
L3SULEV170	California LEV-III SULEV170			L4ULEV200	California LEV-IV ULEV200		
L3SULEV150	California LEV-III SULEV150			L4ULEV250	California LEV-IV ULEV250		
L3LEV630	California LEV-III LEV630			L4ULEV270	California LEV-IV ULEV270		
L3ULEV570	California LEV-III ULEV570			L4ULEV40	California LEV-IV ULEV40		
L3ULEV400	California LEV-III ULEV400			L4ULEV400	California LEV-IV ULEV400		
L3ULEV270	California LEV-III ULEV270			L4ULEV50	California LEV-IV ULEV50		
L3SULEV230	California LEV-III SULEV230			L4ULEV60	California LEV-IV ULEV60		
L3SULEV200	California LEV-III SULEV200			L4ULEV70	California LEV-IV ULEV70		
Transmission Type Code							
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual				
A	Automatic	OT	Other				
AM	Automated Manual	SA	Semi-Automatic				
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)				
Drive System Code							
4	4-Wheel Drive	P	Part-time 4-Wheel Drive				
F	2-Wheel Drive, Front	A	All Wheel Drive				
R	2-Wheel Drive, Rear						
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 the Common Section for
Statements of Compliance.

Statement of Compliance

Statement of Compliance for Test Group (TFMXV05.2GTD)

Ford Motor Company attests that all vehicles within the Test Group/Engine Family will meet the SC03 NMOG+NO_x and CO exhaust standards for the full useful life of the vehicle when tested in accordance with the “California 2026 and Subsequent Model Year Criteria Pollutant Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles.

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 onroad 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.

Test Group: TFMXV05.2GTD
Issued: 07/11/2025



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 TFMXV05.2GTD

Vehicle Program: Mustang GTD

<u>Test Group Information</u>	
Vehicle/Engine Class	LDV
Vehicle Fuel Category	<i>Single Fuel</i>
Operating Fuel 1	<i>Gas</i>
Engine Displacement (liters)	5.2L
SAE net HP @ RPM (98 Ron)	815 @ 7400
SAE net torque ft-lb @ RPM (98 Ron)	664 @ 4800

<u>Emission Control System:</u>	
Air Aspiration Method*	<i>Supercharged (SC)</i>
Charge Air Cooler Type* (TG-51)	<i>Liquid</i>
Exhaust Gas Recirculation (EGR)*	No
Cooled EGR *	No
Air injection Type (AIR)*	AIR=Secondary Air
After-Treatment Type *	TWC
Fuel Metering System *	Sequential Fuel (SFI)
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

* VECI label item

Exhaust Certification Code	Evaporative Calibration	Application	Transmission	Leak Check	Vehicle
TCGKH0NA0000	TFMXR0130NDE	50S	Auto-Man-Sel-8	0.020	Mustang GTD
TCGKH0NB0000					
TCGKH0EA0000					
TCGKH0EB0000					
TCGKH0NA0001					
TCGKH0NB0001					
TCGKH0EA0001					
TCGKH0EB0001					

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
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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 – ERFS
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	See Section 16.00.05.00 for delay time calibration "FN1311P" and the maximum

Test Group: TFMXV05.2GTD

12.00.02.00 - 1

Issued: 07/25/2025

Revised: 11/04/2025

enrichment to unusual conditions
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"
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Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
Open Loop Enrichment EGO Protection	Inferred Oxygen Sensor Temperature	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	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	See Section 16.00.05.00 for "FNHDFX_VCTLIM_EXH"

Test Group: TFMXV05.2GTD

12.00.02.00 - 2

Issued: 07/25/2025

Revised: 11/04/2025

ENGINE COOLING				
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

2026MY 5.2L Mustang GTD Exhaust Emissions Parts List

Certification	Certification Code	Calibration	PCM Assembly Part #	TCM Assembly Part #	Date
Initial Cert	TCGKH0EA0000	TCGKH0EA05	PTR3A-12A650-BAA	PTR3A-12B565-BA	07/10/2025
	TCGKH0NB0000	TCGKH0NB05	PTR3A-12A650-BBA	PTR3A-12B565-BA	07/10/2025
	TCGKH0EB0000	TCGKH0EB05	PTR3A-12A650-BCA	PTR3A-12B565-BA	07/10/2025
	TCGKH0NA0000	TCGKH0NA05	PTR3A-12A650-AZA	PTR3A-12B565-BA	07/10/2025
RC1	TCGKH0EA0001	TCGKH0EA06	PTR3A-12A650-BAA	PTR3A-12B565-BA	10/24/2025
	TCGKH0NB0001	TCGKH0NB06	PTR3A-12A650-BBA	PTR3A-12B565-BA	10/24/2025
	TCGKH0EB0001	TCGKH0EB06	PTR3A-12A650-BCA	PTR3A-12B565-BA	10/24/2025
	TCGKH0NA0001	TCGKH0NA06	PTR3A-12A650-AZA	PTR3A-12B565-BA	10/24/2025

Part Name	Part Number
Catalyst (CC-RH)	TR3V-5E212-DD TR3V-5E212-EB (Alt.)
Catalyst (CC-LH)	TR3V-5E213-DD TR3V-5E213-EB (Alt.)
Supercharger	NR7E-6F066-AA
Charge Air Cooler	KR3E-6K775-DB
Fuel Pump (Low Pressure)	SR3V-9350-SC
Cylinder Head Temperature Sensor	JL3A-6G004-AA
Camshaft Position Sensor Assembly	KR3A-12K073-AB
Crankshaft Position Sensor	JR3A-6C315-AB
PCV Valve	KR3E-6A666-CA
Secondary Air Tube & Valve	TR3E-9J454-DB TR3E-9J454-EA (Alt)
Secondary Air Tube & Pressure Sensor	TR3V-9P473-CA TR3V-9P473-DA
Secondary Air Inj. Pump & Bracket Assy	TR3V-9S495-BA
Integrated Fuel Pressure/Temp Sensor	HX7G-9G756-AC
Heated Air/Fuel Sensor	TR3A-9Y460-AA TR3A-9Y460-BA
Heated Oxygen Sensor	TR3A-9G444-AA TR3A-9G444-BA
Fuel Injector	KR3E-9F593-AA
Electric Throttle Body	NR7E-9F991-AA
Knock Sensor	AL3A-12A699-BB
Camshaft Variable Timing Solenoid	BR3E-6B297-DF
Manifold Absolute Pressure Sensor	K2GA-9F479-BB
Test Group: TFMXV05.2GTD	
Issued: 07/02/2025	
Revised: 11/04/2025	

Engine Coolant Temperature Sensor

JL3A-12A648-BA

Inlet Air Temperature Sensor

DS7A-12A697-AA

2026 TEST VEHICLE REQUIREMENTS

	Evaporative Emission Vehicle	Evaporative Emission Vehicle	Exhaust Emission Vehicle
Test Group	RFMXV02.3VJY	RFMXV05.0VKN	SFMXV05.2GTD
Evap Emission Family	RFMXR0130NDE	RFMXR0130NDE	SFMXR0130NDE
Displacement	2.3L	5L	5.2L
Engine Code	RCZJN3ND01	RCZJMFND00	SCGKH0NA00
Fuel Tank Capacity	16.1 Gal	16.1 Gal	16.1 Gal
Exhaust Control System	TWC/HO2S/WR-HO2S/CAC/EGR/EGRC/T C/DFI/SFI	TWC/HO2S/SFI/WR-HO2S/DFI	TWC/WR-HO2S/HO2S/SC/CAC/AI R/SFI
Model	MUSTANG PERFORMANCE PACK	Mustang	Mustang GTD
Transmission	Auto-10	Semi-Auto-10	Auto-Man-Sel-8
Equivalent Test Weight	4250.0	4500.0	4750.0
Curb Weight	3920.0	4113.0	4343.0
GVWR	4705.0	4860.0	4800.0
THP/DPA	14.6 / f0=42.12, f1=0.0191, f2=0.02643	17.2 / f0=47.89, f1=0.4442, f2=0.02369	21.3 / f0=59.58, f1=0.528, f2=0.02965
Axle Ratio	3.55	3.55	3.55
N/V Ratio - RPM/MPH	29.0	30.0	28.3
Tires	255/40R19	305/30R19 (F), 315/30R19 (R)	P325/30R20 (F), 345/30ZRR20 (R)
Vehicle ID No	564W749	PZJ1-5.0-J-660	SZG1-5.2-J-145
Configuration Number	0	0	0
Model Year	2024	2024	2025

Vehicle Description Report

Test Group: TFMXV05.2GTD

ID Number	5297141	5297142	5297143	5297144
Displacement	5.2	5.2	5.2	5.2
Cert Code	TCGKH0EA0001	TCGKH0EB0001	TCGKH0NA0001	TCGKH0NB0001
Fuel Tank(s)	M	M	M	M
Carline	MUSTANG GTD	MUSTANG GTD	MUSTANG GTD	MUSTANG GTD
Wheel Configuration	Standard	Standard	Standard	Standard
Body Style	Coupe	Coupe	Coupe	Coupe
Wheelbase	107.1	107.1	107.1	107.1
Transcode Combo	HF	HF	HF	HF
Curb Weight	4423	4423	4423	4423
ETW	4750	4750	4750	4750
Loaded Weight LVW	4723	4723	4723	4723
ALVW-ETW	4750	4750	4750	4750
Adj. Loaded Weight	4647	4647	4647	4647
GVWR	4870	4870	4870	4870
GCWR	4870	4870	4870	4870
Min Axle Ratio	3.55	3.55	3.55	3.55
Max Axle Ratio	3.55	3.55	3.55	3.55
Min N/V Ratio	22.6	22.6	22.6	22.6
Max N/V Ratio	22.6	22.6	22.6	22.6
Emission Vehicle Class	LDV	LDV	LDV	LDV
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Automated Manual - Selectable	Automated Manual - Selectable	Automated Manual - Selectable	Automated Manual - Selectable
Calibration Application	50ST	50ST	50ST	50ST
Min Tire Size	345/30R20 - 22.6	345/30R20 - 22.6	345/30R20 - 22.6	345/30R20 - 22.6
Max Tire Size	345/30R20 - 22.6	345/30R20 - 22.6	345/30R20 - 22.6	345/30R20 - 22.6
Alt Tire 1				
Alt Tire 2				
Alt Tire 3				
Alt Tire 4				
Alt Tire 5				
Alt Tire 6				
Alt Tire 7				
DAW Full Tank	2186	2186	2186	2186
DAW Empty Tank	2095	2095	2095	2095

Vehicle Description Report

Test Group: TFMXV05.2GTD

ID Number	5297139	5297140	5296723	5296724
Displacement	5.2	5.2	5.2	5.2
Cert Code	TCGKH0EA0000	TCGKH0EB0000	TCGKH0NA0000	TCGKH0NB0000
Fuel Tank(s)	M	M	M	M
Carline	MUSTANG GTD	MUSTANG GTD	MUSTANG GTD	MUSTANG GTD
Wheel Configuration	Standard	Standard	Standard	Standard
Body Style	Coupe	Coupe	Coupe	Coupe
Wheelbase	107.1	107.1	107.1	107.1
Transcode Combo	HF	HF	HF	HF
Curb Weight	4423	4423	4423	4423
ETW	4750	4750	4750	4750
Loaded Weight LVW	4723	4723	4723	4723
ALVW-ETW	4750	4750	4750	4750
Adj. Loaded Weight	4647	4647	4647	4647
GVWR	4870	4870	4870	4870
GCWR	4870	4870	4870	4870
Min Axle Ratio	3.55	3.55	3.55	3.55
Max Axle Ratio	3.55	3.55	3.55	3.55
Min N/V Ratio	22.6	22.6	22.6	22.6
Max N/V Ratio	22.6	22.6	22.6	22.6
Emission Vehicle Class	LDV	LDV	LDV	LDV
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Automated Manual - Selectable	Automated Manual - Selectable	Automated Manual - Selectable	Automated Manual - Selectable
Calibration Application	50ST	50ST	50ST	50ST
Min Tire Size	345/30R20 - 22.6	345/30R20 - 22.6	345/30R20 - 22.6	345/30R20 - 22.6
Max Tire Size	345/30R20 - 22.6	345/30R20 - 22.6	345/30R20 - 22.6	345/30R20 - 22.6
Alt Tire 1				
Alt Tire 2				
Alt Tire 3				
Alt Tire 4				
Alt Tire 5				
Alt Tire 6				
Alt Tire 7				
DAW Full Tank	2186	2186	2186	2186
DAW Empty Tank	2095	2095	2095	2095



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**

July 25th, 2025

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

Dear Ms. Frame:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year gasoline powered light-duty vehicles (LDVs) contained in Ford's 50 states test group TFMXV05.2GTD and evaporative emission family TFMXR0130NDE. The test fuel used is Federal Tier 3 Fuel.

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

Certification FTP Standards (g/mi)	Useful Life	NMOG + NOx	CO	PM	US06 PM	HCHO
T3B125	150K	0.125	2.1	0.003	0.006	0.004

In addition, this test group meets the Cold NMHC Family Emission Limit (FEL) of 0.6 gm/mi as part of compliance plan to meet corporate fleet average cold NMHC standards. This test group also complies with the CH₄ standard of 0.030 g/mi and combined N₂O standard of 0.010 g/mi. This test group also meets the SFTP NMOG+NOx Family Emission Limit (FEL) of 0.070 g/mi and CO limit of 4.2 g/mi as part of compliance plan to meet corporate fleet average SFTP standards.

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

Tier 3	Useful Life	Evaporative Family	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Certification and In-Use Evaporative Standards	150K	TFMXR0130NDE	0.300 grams per test	0.300 grams per test	0.05 grams/mile	0.20 grams/gallon	0.020 grams

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

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 # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85, 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 Terry Cowher at 313-805-6360, if you have any questions regarding this submission.

Sincerely,

DocuSigned by:
Lawrence H. Merritt, Jr.
DF6ED4749EAC46B...

Lawrence H. Merritt, Jr.
Manager, Emissions Certification
Homologation, & Compliance



**Environmental & Safety Compliance
Ford Motor Company**

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

July 25th, 2025

Ms. Robin U. Lang , Chief
Emissions Certification and Compliance Division
Air Resources Board
4001 Iowa Ave.
Riverside, CA 92507

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year gasoline powered passenger cars (PCs) contained in Ford's 50 states test group TFMXV05.2GTD and evaporative emission family TFMXR0130NDE. The test fuel used is Federal Tier 3 Fuel.

The LEV IV FTP certification exhaust emission standards and In-Use standards applicable to this test group for vehicle offered in California are as follows:

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

The LEV IV US06 certification exhaust emission standards and In-Use standards applicable to this test group for vehicle offered in California are as follows:

Certification and In-Use US06 Standards (g/mi)	Useful Life	NMOG + NOx	CO	PM
LEV IV INTERIM ULEV125	150K	0.150	9.6	0.006

The LEV IV SC03 exhaust emission standards and In-Use standards applicable to this test group for vehicle offered in California are as follows:

Certification and In-Use SC03 Standards (g/mi)	Useful Life	NMOG + NOx	CO
LEV IV ULEV125	150K	0.125	2.1

The LEV IV certification and In-Use evaporative emission standards applicable to this test group are as follows:

LEV IV	Useful Life	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	Canister Bleed Test
Certification and In-Use Evaporative Standards	150K	0.300 grams per test (PC & LDV)	0.300 grams per test (PC & LDV)	0.01 gram/mile	0.20 gram/gallon	0.020 g/test

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

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 # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. 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, 86 and 600, Ford requests that an Executive Order be issued for the LDT test group listed in this Application for Certification.

Ford is submitting this application provisionally in light of the June 12, 2025 legislation nullifying EPA's preemption waiver for CARB's Advanced Clean Cars II standards. These vehicles meet the requirements in California's current regulations as enacted under the Advanced Clean Cars-I program. Ford intends submittal of this application 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 in light of this legislation.

Based on my inquiry of those individuals with primary responsibility for SC03 compliance, I certify under penalty of perjury that the attested statement regarding SC03 in Application Section 8 is, to the best of my knowledge and belief, true, accurate, and complete.

Please contact Terry Cowher at 313-805-6360, if you have any questions regarding this submission.

Sincerely,

DocuSigned by:
Lawrence H. Merritt, Jr.
DF6ED4749EAC46B...

Lawrence H. Merritt, Jr.
Manager, Emissions Certification
Homologation, & Compliance

cc: H. Chamouni, M. Desai



SECTION 15

Other Information

15.00.00.00



CCAPS Manual Payment Request

(North America)

REF NO: 306173

NAME AND ADDRESS OF PAYEE

Environmental Protection Agency-MVECP

U.S. Bank - Government Lockbox 979032

1005 Convention Plaza SL-MO-C2-GL St. Louis, MI 63101

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 by ACH.

REASON FOR DISBURSEMENT

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

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

2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)

LOC CODE	GEN. LED.	SUB. ACCT.	SUB. DIV.	DEPT	PROD. CODE	BALANCE REFERENCE	MISC. REFERENCE	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
5100	25A	00217		5100S910		F102A	EPA			296,451.00	N
TOTAL										296,451.00	

Pre-requisites for Payment :

- Requestors or Approvers to ensure the following
 - Receipt of Service
 - Price Validation
 - Supported by invoice or other documentation
- Check if payment item is on [Uses of Manual Payment Requests](#)
- For Finance Approval follow [Corporate Approval Authorities - Method of Payment](#)

TYPE OF INVOICE:

MANUAL PAYMENT REQUEST CATEGORY (use drop down with Alt+down arrow key):

Legal Matters- Environmental Fees

Requestor

Operations Approval - Receipt of Service

Preparer/Requestor	CDS ID	Sign	Date	Approver	CDS ID	Sign	Date
	TOLIVER		1/31/2025		LMERRITZ		1/31/2025

DocuSigned by: DF6ED4749EAC46B...

Approvals per Corporate Approval Authorities - Method of Payment

Payment Item is on Uses of Manual Payment Requests				Payment Item is not on Uses of Manual Payment Requests			
Finance LL5+ or Plant Controller (LL6) Unlimited	CDS ID	Sign	Date	Finance LL4+ Unlimited	CDS ID	Sign	Date
Finance LL6 < \$250,000	PBLANCAS		1/31/2025	Finance LL5 < \$25,000			

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

306173

PA_MV CP_v

S A Fee Form

Terry Cowher
313-805-6360

[Help and EPA instructions](#)

Tracking Information
Pay.gov Tracking ID: 27L67PLI

* Required Field

Agency Tracking ID: 76946892180

General Information

Date: 01/28/2025

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

calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group *

TFMXV05.2GTD

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

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 12/31/2022

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



SECTION 16

Confidential Information



SECTION 17

California ARB Requirements



SECTION 17

California ARB Requirements

TFMXV05.2GTD

FoMoCo	Ford Motor Company VEHICLE EMISSION CONTROL INFORMATION
Conforms to regulations: 2026 MY	
U.S. EPA: T3B125 LDV	
OBD: CA OBD II	Fuel: Gasoline
California: Interim ULEV125 PC	
OBD: CA OBD II	Fuel: Gasoline
TWC/WR-HO2S/HO2S/SC/CAC/AIR/SFI	
No adjustments needed.	
5.2L- Group: TFMXV05.2GTD Evap:TFMXR0130NDE	
▽ TW7E-9C485-L U A	

APPLICATION REVISIONS

TFMXV05.2GTD

<u>NO.</u>	<u>DATE</u>	<u>PAGE(S)</u>	<u>DESCRIPTION</u>
RC1	11/04/2025	12.00.02.00 12.00.03.00 12.00.06.00	With this running change Ford is introducing updated PCM calibrations for customer satisfaction and OBD robustness. WP# 03.14.01-15444

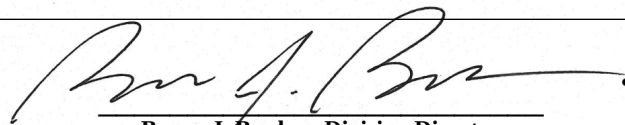


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2026 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: Ford Motor Company
(U.S. Manufacturer or Importer)
Certificate Number: TFMXV05.2GTD-031

Effective Date:
08/21/2025
Expiration Date:
12/31/2026


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
08/21/2025
Revision Date:
N/A

Test Group Name: TFMXV05.2GTD
Evaporative/Refueling Family Name: TFMXR0130NDE
Applicable Exhaust Emission Standards: Federal Tier 3 Bin 125
Applicable Evaporative/Refueling Standards: Federal Tier 3 Evap

Engine Displacement: 5.2 Liters
Exhaust Emission Test Fuel Type: Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Full Useful Life Miles: Exhaust Emissions: 150,000 miles
Full Useful Life Miles: Evaporative/Refueling Emissions: 150,000 miles

Models Covered: Ford: MUSTANG GTD

Pursuant to section 206 of the Clean Air Act (42 U.S.C.7525) and 40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable, this certificate of conformity is hereby issued with respect to test vehicles which have been found to conform to the requirements of the regulations on Control of Air Pollution from New Motor Vehicles and New Motor Vehicle Engines (40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable) and which represent the new motor vehicle models listed above by test group and evaporative/refueling emission family, more fully described in the application of the above named manufacturer. Vehicles covered by this certificate have demonstrated compliance with the applicable emission standards as more fully described in the manufacturer's application. This certificate covers the above models, which are designed to meet the applicable emission standards specified in 40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable at both high and low altitude as applicable.

EPA is issuing this certificate subject to the conditions and provisions of 40 CFR 86.1848(c), and 40 CFR 1037 as applicable.

This certificate covers only those new motor vehicles or vehicle engines which conform, in all material respects, to the design specifications that apply to those vehicles or engines described in the documentation required by 40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable and which are produced during the 2026 model year production period stated on this certificate of the said manufacturer, as defined in 40 CFR Parts 85, 86, 88, 600, 1037, 1065, and 1066 as applicable. The manufacturer shall obtain the approval of the California Air Resources Board (in the form of an executive order issued by the California Air Resources Board) prior to introducing any vehicle covered by this certificate into commerce 1) in the State of California, or 2) in a State that, under the authority of Section 177 of the Clean Air Act, has adopted and placed into effect the California standards to which this test group has been certified.

Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded fuel. This certificate is issued subject to the conditions specified in 40 CFR 80.24. Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel, otherwise covered by this certificate, which are driven outside the United States, Canada, Mexico, Japan, Australia, Taiwan and the Bahama Islands will be presumed to have been operated on leaded fuel resulting in deactivation of the catalysts. If these vehicles are imported or offered for importation without retrofit of the catalyst, they will be considered not to be within the coverage of this certificate unless included in a catalyst control program operated by manufacturer or a United States Government Agency and approved by the Administrator.

In the case of completely assembled vehicles, this certificate of conformity covers only vehicles which are completely manufactured prior to January 1, 2027. Normally incompletely assembled vehicles (such as cab chassis) may be completed after this date, provided that the basic manufacturing (including installation of the emission control system) was completed prior to January 1, 2027. This certificate does not cover vehicles sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

Pursuant to the authority vested in California Air Resources Board by Health and Safety Code (HSC), Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC §39515 and §39516, and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: The following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

TEST GROUP INFORMATION

Model Year: 2026	Fuel Type: GASOLINE
Test Group: TFMXV05.2GTD	Fuel Category: DEDICATED SINGLE FUEL VEHICLE
Vehicle Class(es): PC	Useful Life (miles): Exhaust/ORVR 150000, Evap: 150000
Engine Displacement (liters): 5.2	
Exhaust Emission Control Systems 1: 2TWC, 2WR-HO2S, 2HO2S, SC, CAC, 2AIR, SFI	
OBD Status: PARTIAL - ALL MODELS	

VEHICLE EMISSIONS CATEGORY

FTP Vehicle Emissions Category: LEV4 ULEV125	SFTP Vehicle Emissions Category: LEV4 (INTERIM CERT US06)
FTP Interim / Intermediate In-Use Standard: *	SFTP Interim / Intermediate In-Use Standard: *
Exhaust Emission Test Fuel: COLD CO E10 PREMIUM GASOLINE (TIER3), GASOLINE-TIER3 E10 PREM	

EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION

EVAP/ORVR Family	Evaporative STD Category	Evap Emission STD Vehicle Class	Evap Special Features
TFMXR0130NDE	LEV 4 OPTION 2 WITH FEL	PC	HCT

EMISSION CREDIT INFORMATION

NMOG+NOx Fleet Average Credit for Extended Warranty: N	NMOG Credit for DOR: N
---	-------------------------------

NMOG AND FLEET AVERAGE INFORMATION

NMOG+NOx Fleet STD PC/LDT/MDPV (g/mi): 0.030	FTP NMOG/NMHC Ratio: 1.10
NMOG+NOx Fleet STD MDV (8,501-10,000 GVWR) (g/mi): *	HCHO/NMHC Ratio: *
NMOG+NOx Fleet STD MDV (10,001-14,000 GVWR) (g/mi): *	CH4 RAF: *

See Attachment A for emission standards. See Attachment B for certified vehicle models and abbreviations.

BE IT FURTHER RESOLVED: For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations (13 CCR) §1965 [emission control labels], §1961.4(d)(4) [SC03 standard for PC, LDT, and MDPV] or §1961.4(e)(4) [SC03 standard for MDVs] as applicable, §1961.4(d)(2)(B) [partial soak standards] as applicable, §1968.2 [on-board diagnostic, full or partial compliance], §1978 [vehicle refueling emissions standard for diesel-fueled vehicles or natural gas-fueled vehicle (ANSI NGV1-2006)] as applicable, §2035 et seq. [emission control warranty], §2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only).

BE IT FURTHER RESOLVED: Compliance with the 50-degree Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirements (NMOG+NOx: 13 CCR §1961.4(d)(1) or §1961.4(e)(1); GHG: 13 CCR §1961.3 or 17 CCR §95663; Evap FEL: 13 CCR §1976(b)(1)(G); and the incorporated test procedures, as applicable), for PC, LDT, MDPV, or MDV shall be equalized as required.

BE IT FURTHER RESOLVED: Manufacturer requested an Executive Order. This Executive Order certifies the test group meets the standards for which certification was requested. See Manufacturers Advisory Correspondence (MAC) ECCD-2025-08 (August 25, 2025).

As stated in MAC ECCD-2025-08, CARB reserves its right to enforce the regulations covered by the waivers targeted by the congressional resolutions in the event a court of law holds those resolutions invalid.

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

Executed on this 24th day of September 2025.


Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT A

Applicable Exhaust and Evaporative Standards

FTP Exhaust Emissions STD (g/mi, except mg/mi for HCHO):

<u>Standard</u>	<u>NMOG+NOx</u>	<u>CO</u>	<u>HCHO</u>	<u>PM</u>	<u>High Altitude NMOG+NOx</u>
FTP @ UL	0.125	2.1	4	0.003	0.160
FTP 50 °F @ 4K	0.250	2.1	16	*	0.250
QDA @ UL	*	*	*	*	*
HWFET @ UL	0.125	*	*	*	*
20 °F @ 50K	*	10.0	*	*	*

Partial Soak NMOG+NOx STD (g/mi):
10-Minute Soak: 40-Minute Soak: 3-Hour to 12-Hour Soak:

* * *

The Partial Soak NMOG+NOx exhaust emissions must not exceed the standards derived by the applicable method per 13 CCR §1961.4(d)(2)(B)

SFTP Exhaust Emissions Standard STD (g/mi, except mg/mi for PM)

<u>Standard</u>	<u>NMOG+NOx</u>	<u>CO</u>	<u>PM</u>
US06 @ UL	0.150	9.6	6
HPCS @ UL	*	*	*
SC03 @ UL	0.125	2.1	*
Composite @ UL	*	*	*

Whole Vehicle Evaporative Emissions STD @ UL (g/test, except g/mi for RL):

<u>Evaporative Family</u>	<u>3DHS</u>	<u>3DHS FEL</u>	<u>2DHS</u>	<u>2DHS FEL</u>	<u>RL</u>
TFMXR0130NDE	0.300	0.300	0.300	0.300	0.01

ORVR, Fuel Only Evap, and Canister Bleed STD (g/test, except g/gal for ORVR):

<u>Evaporative Family</u>	<u>ORVR @ UL</u>	<u>3DHS Rig Test @ UL</u>	<u>2DHS Rig Test @ UL</u>	<u>Canister Bleed Test @ 4k</u>
TFMXR0130NDE	0.20	*	*	0.020

Leak Diameter STD:

<u>Leak Family</u>	<u>Leak Diameter (in.)</u>
TFMXR0130NDE-001	0.02

ATTACHMENT B

VEHICLE MODELS INFORMATION

Model Number	Make	Model	(A)	(B)	(C)	(D)	(E)	(F)
1	FORD	MUSTANG GTD	PC	5.2	AMS8	1	TFMXR0130NDE	P

(A): Vehicle Class, (B): Engine Displacement in liters, (C): Transmission Type, (D): Exhaust ECS, (E): Evaporative Family, (F): OBD Status.

Abbreviations:

CH₄: methane; NMOG: non-CH₄ organic gas; HC: hydrocarbon; NMHC: non-CH₄ HC; CO: carbon monoxide; NO_x: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; GHG: greenhouse gas; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; FTP: federal test procedure; SFTP: supplemental FTP; QDA: quick drive-away; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT <6000#GVWR, 0-3750#LVW; LDT2: LDT <6000#GVWR, 3751-5750#LVW; LDT3: LDT 6001-8500#GVWR, 3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR, 5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: medium-duty passenger vehicle; ECS: emission control system; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorber catalyst; WU: warm-up catalyst; NAC: NO_x adsorber catalyst; SCR-U or SCRC/SCR-N or SCRC-NH₃: selective catalytic reduction-urea/ammonia; NH₃OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO₂S/O₂S: heated/oxygen sensor; WR-HO₂S or AFS: wide range/linear/heated air-fuel ratio sensor; NO_xS: NO_x sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH₃S: ammonia sensor; EGH: exhaust gas heater; EGR: exhaust gas recirculation; HP/LP EGR: High/Low Pressure EGR; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; SCE: SC (electric driven); CAC: charge air cooler; FFH: fuel fired heater; OBD: on-board diagnostics; F/P: full/partial; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; NIRCO: non-integrated refueling canister-only; prefix 2: parallel; (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E10: "10%" ethanol ("90%" gasoline) fuel; E85: "85%" ethanol ("15%" gasoline) fuel; A: automatic transmission (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission; NMOG+NO_x Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models; *: not applicable.

Application for Certification

Part 2