

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Certificate Number	TFMXV05.2VEZ-073	CARB Executive Order #	--
Certificate Issue Date	03/19/2026	Certificate Revision Date	--
Certificate Effective Date	03/19/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	02/26/2026 10:40:44 PM
Model Year	2026		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	TFMXGPGNND5A	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	08/10/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TFMXD06.87BC
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	City Litmus Value = 11.7, City Litmus Threshold Value = 11.3, Highway Litmus Value = 17.6, Highway Litmus Threshold Value = 16.1		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

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

Certification Summary Information Report

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

Certification Summary Information Report

Test Group		TFMXV05.2VEZ				Evaporative/Refueling Family			TFMXR0130NDE		
Official Test Numbers											
Test Group Fuel		FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		TFMX10093110	TFMX10093112	TFMX10093113	TFMX10093114	TFMX10093111	11.7	11.4	17.6	16.2	--
SFTP LEV-III Official Test Numbers											
Test Group Fuel		FTP		US06			SC03				
Gasoline		TFMX10093110		TFMX10093112			TFMX10093113				

Certification Summary Information Report

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

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	42.12	0.0191	0.02643	1.07	0.6409	0.0187	14.6
Cold CO	42.12	0.0191	0.02643	1.07	0.6409	0.0187	N/A
US06	42.12	0.0191	0.02643	1.07	0.6409	0.0187	N/A

Emission Control Device Comments	T3B30/SULEV30, SFTP-0.050, PM3, CB3, T3e, L3e
Manufacturer Test Vehicle Comments	24MY FORD MUSTANG 2.3L GTPFDI RWD

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

Test Results

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

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

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL	0.0032	0	0.003	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL	0.0032	0	0.003	0.02	Pass

Certification Summary Information Report

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

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family		TFMXR0130NDE	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	47.89	0.4442	0.02369	22.25	0.4606	0.02154	17.2	
Cold CO	47.89	0.4442	0.02369	22.25	0.4606	0.02154	N/A	
US06	47.89	0.4442	0.02369	22.25	0.4606	0.02154	N/A	
Emission Control Device Comments		HP on Premium Fuel						
Manufacturer Test Vehicle Comments		--						

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	RFMX10078664	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/20/2022	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	71
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3884	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	481.16093	--
FE BAG 1 (Bag 1 Fuel Economy)	18.03748	18.03748
CO2 BAG 2 (Bag 2 Carbon Dioxide)	481.94722	--
FE BAG 2 (Bag 2 Fuel Economy)	18.04224	18.04224
CO2 BAG 3 (Bag 3 Carbon Dioxide)	444.00217	--
FE BAG 3 (Bag 3 Fuel Economy)	19.56605	19.56605
METHANE (CH4 - Methane)	0.01507	--
CO (Carbon Monoxide)	0.83536	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.51825	--
DT-EER (Drive Trace Energy Economy Rating)	-0.595358	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.778936	--
MFR FE (Manufacturer Fuel Economy)	18.44935	18.44935
NOX (Nitrogen Oxide)	0.01414	--
N2O (Nitrous Oxide)	0.00227	--
HC-NM (Non-methane Hydrocarbon)	0.0210123	--
NMOG (Non-methane organic gases)	0.0231	--
PM (Particulate Matter)	0.0008356	--
HC-TOTAL (Total Hydrocarbon)	0.03509	--

Certification Summary Information Report

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

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

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

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

Test Results

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

Manufacturer Test Comments 2 day evap Measured NMOG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2697	0	0.27	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	OMHCE	0.2697	0	0.27	0.3	Pass

Certification Summary Information Report

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

Test Results

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

Manufacturer Test Comments

3 day cert evap Measured NMOG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2676	0	0.268	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	OMHCE	0.2676	0	0.268	0.3	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE									
Test #	RFMX10078666	Test Procedure	24 - Federal fuel refueling test (ORVR)									
Exhaust Test # for this Evap Test	RFMX10078664	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	01/25/2023	Fuel	Gasoline									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	APTL											
E10 Evaporative Test Measurement Method	--											
Test Start Odometer Reading	4135	Odometer Units	M									
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--									
State of Charge Delta	--											
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	--									
Test Results												
<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	0.2	Pass				
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	OMHCE	0.004	0.005	0.01	0.2	Pass				

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

Test Results

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

Manufacturer Test Comments

Measured NMOG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	OMHCE	0	0	0	0.01	Pass

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Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE						
Emission Data Vehicle Information									
Vehicle ID / Configuration	TZG1-5.2-J-327 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TFMXV05.2VEZ	Original Evaporative/Refueling Family	TFMXR0130NDE						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	FORD	Represented Test Vehicle Model	Mustang Dark Horse SC						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
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	TCZJH0NA00	Rated Horsepower	775						
Displacement (liters)	5.2								
Air Aspiration Method	Supercharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	4-Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)						
Curb Weight (lbs)	4249	Equivalent Test Weight (pounds)	4500						
GVWR (lbs)	5070	N/V Ratio	28.5						
Axle Ratio	3.55								
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	7						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family		TFMXR0130NDE	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	52.05	0.3369	0.02848	-0.53	-0.6336	0.03546	18.7	
Cold CO	52.05	0.3369	0.02848	-0.53	-0.6336	0.03546	N/A	
US06	52.05	0.3369	0.02848	-0.53	-0.6336	0.03546	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Vehicle is RWD and is tested on a AWD test site. No dyno mode, No Coast down mode and No Neutral hold mode						

Certification Summary Information Report

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

Certification Summary Information Report

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

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Certification Summary Information Report

Test Group		TFMXV05.2VEZ				Evaporative/Refueling Family				TFMXR0130NDE		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.56	--	--	--	--	--	0.6	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.66	--	--	--	--	--	0.7	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	599	--	--	--	0	--	599	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	HCHO	0.0006	--	--	--	--	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.0076	--	--	--	--	--	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	N2O	0.0002	--	--	--	--	--	0	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0182	--	1.1	--	--	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0405	--	--	--	--	--	0.04	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0503	--	--	--	--	--	0.05	0.090	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0223	--	--	--	--	--	0.022	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	OPT-CREE	599	--	--	--	0	--	599	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0003	--	--	--	--	--	0	0.003	Pass
CA	150,000 miles	California LEV-III ULEV125	CO	0.56	--	--	--	--	--	0.6	2.1	Pass
CA	150,000 miles	California LEV-III ULEV125	CO-COMP	0.66	--	--	--	--	--	0.7	4.2	Pass
CA	150,000 miles	California LEV-III ULEV125	HCHO	0.0006	--	--	--	--	--	0.001	0.004	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0182	--	1.1	--	--	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0405	--	--	--	--	--	0.04	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX-COMP	0.0503	--	--	--	--	--	0.05	0.090	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0223	--	--	--	--	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	PM	0.0003	--	--	--	--	--	0	0.003	Pass

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

Certification Summary Information Report

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

Certification Summary Information Report

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

Test Group		TFMXV05.2VEZ				Evaporative/Refueling Family				TFMXR0130NDE		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 125	CO	2.54	--	--	--	--	--	2.5	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 125	HC-NM	0.53	--	--	--	--	--	0.5	0.6	Pass
CA	50,000 miles	California LEV-III ULEV125	CO	2.54	--	--	--	--	--	2.5	10.0	Pass

Certification Summary Information Report

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

Certification Summary Information Report

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

Certification Summary Information Report

Test Group		TFMXV05.2VEZ				Evaporative/Refueling Family				TFMXR0130NDE		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-III ULEV125	CO	0.47	--	--	--	--	--	0.5	2.1	Pass
CA	4,000 miles	California LEV-III ULEV125	HCHO	0.0005	--	--	--	--	--	0	0.016	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG	0.0572	--	--	--	--	--	0.057	999.999	Pass
CA	4,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0829	--	--	--	--	--	0.083	0.250	Pass
CA	4,000 miles	California LEV-III ULEV125	NOX	0.0257	--	--	--	--	--	0.026	999.999	Pass

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093111	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	12/17/2025	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	26
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5887	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.000664	--
CO (Carbon Monoxide)	0.067878	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.118428	--
DT-EER (Drive Trace Energy Economy Rating)	-0.069199	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.220802	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	23.2	23.2
NOX (Nitrogen Oxide)	0.006439	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.000609	--
NMOG (Non-methane organic gases)	0.000672	--
HC-TOTAL (Total Hydrocarbon)	0.001241	--

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

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

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family					TFMXR0130NDE		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	372	--	--	--	0	--	372	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0007	--	1.03	--	--	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0071	--	--	--	--	--	0.007	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0064	--	--	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0007	--	1.03	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III ULEV125	NMOG+NOX	0.0071	--	--	--	--	--	0.007	0.125	Pass
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0064	--	--	--	--	--	0.006	999.999	Pass

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

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093112	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	12/17/2025	Fuel	Gasoline
Fuel Batch ID	374-B	Fuel Calibration Number	26
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3918	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	756.406237	--
CO BAG 1 (Bag 1 Carbon Monoxide)	0.5992	--
FE BAG 1 (Bag 1 Fuel Economy)	11.417609	11.417609
CH4 BAG 1 (Bag 1 Methane)	0.0051746	--
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0329052	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	448.027416	--
CO BAG 2 (Bag 2 Carbon Monoxide)	0.7699	--
FE BAG 2 (Bag 2 Fuel Economy)	19.23976	19.23976
CH4 BAG 2 (Bag 2 Methane)	0.0034258	--
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.015416	--
METHANE (CH4 - Methane)	0.003814	--
CO (Carbon Monoxide)	0.731981	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.397896	--
DT-EER (Drive Trace Energy Economy Rating)	-0.458693	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.978283	--
MFR FE (Manufacturer Fuel Economy)	16.7	16.7
NOX (Nitrogen Oxide)	0.035245	--
HC-NM (Non-methane Hydrocarbon)	0.018735	--
NMOG (Non-methane organic gases)	0.02066	--
PM (Particulate Matter)	0.001908	--
HC-TOTAL (Total Hydrocarbon)	0.022359	--

Certification Summary Information Report

Test Group		TFMXV05.2VEZ				Evaporative/Refueling Family				TFMXR0130NDE			
Test Result Name				Unrounded Test Result				Verify Calculated CREE/OPT-CREE					
Carbon-Related Exhaust Emissions				517				--					
Test Result Name				Unrounded Test Result				Verify Calculated CO2					
Carbon dioxide				516.5				--					
Manufacturer Test Comments				--									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Bin 125	PM	0.0019	--	--	--	--	--	0.002	0.006	Pass	
CA	150,000 miles	California LEV-III ULEV125	NMOG	0.0207	--	--	--	--	--	0.021	999.999	Pass	
CA	150,000 miles	California LEV-III ULEV125	NOX	0.0352	--	--	--	--	--	0.035	999.999	Pass	
CA	150,000 miles	California LEV-III ULEV125	PM	0.0019	--	--	--	--	--	0.002	0.006	Pass	

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Test #	TFMX10093113	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	01/30/2026	Fuel	N/A
Fuel Batch ID	374-B	Fuel Calibration Number	28
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4050	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.016642	--	
CO (Carbon Monoxide)	0.692712	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.164403	--	
DT-EER (Drive Trace Energy Economy Rating)	0.163973	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.209571	--	
MFR FE (Manufacturer Fuel Economy)	12.3	12.3	
NOX (Nitrogen Oxide)	0.023096	--	
HC-NM (Non-methane Hydrocarbon)	0.029225	--	
NMOG (Non-methane organic gases)	0.032052	--	
HC-TOTAL (Total Hydrocarbon)	0.047032	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	716	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	715.1	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Fuel Properties			
Fuel Batch ID	374-B	Fuel Calibration Number	26
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/01/2025
Fuel Batch Calibration Effective Date	12/01/2025	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	10.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.456	Fuel Carbon Mass Fraction (E10)	0.824
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	376-B	Fuel Calibration Number	11
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	12/17/2025
Fuel Batch Calibration Effective Date	12/17/2025	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	10.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.461	Fuel Carbon Mass Fraction (E10)	0.823
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	71
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	09/13/2022
Fuel Batch Calibration Effective Date	09/13/2022	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17898
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	374-B	Fuel Calibration Number	25
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	10/31/2025
Fuel Batch Calibration Effective Date	10/31/2025	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group	TFMXV05.2VEZ	Evaporative/Refueling Family	TFMXR0130NDE
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.742
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	16772
Fuel Net Heat of Combustion (E10) (MJ/kg)	39.012	Fuel Carbon Mass Fraction (E10)	0.823
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.823	Weight Fraction CO2	--
Fuel Batch ID	374-B	Fuel Calibration Number	28
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	01/21/2026
Fuel Batch Calibration Effective Date	01/21/2026	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.454	Fuel Carbon Mass Fraction (E10)	0.832
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		TFMXV05.2VEZ		Evaporative/Refueling Family			TFMXR0130NDE		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	METHANE	--	--	--	--	--	--	--	0.030
150,000 miles	N2O	--	--	--	--	--	--	--	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.090
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

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

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.125
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family			TFMXR0130NDE	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
Fuel		Gasoline			Test Procedure			Fed. fuel 50 F exh.	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	2.1
4,000 miles	HCHO	--	--	--	--	--	--	--	0.016
4,000 miles	NMOG	--	--	--	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.250
4,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	--	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	--	0.6
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	PM	--	--	--	--	--	--	--	0.006

Certification Summary Information Report

Test Group		TFMXV05.2VEZ			Evaporative/Refueling Family			TFMXR0130NDE	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III ULEV125	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	--	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.006

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

Evaporative/Refueling Standards

Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.20	0.005		

Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.005		

Certification Summary Information Report

Test Group		TFMXV05.2VEZ		Evaporative/Refueling Family		TFMXR0130NDE	
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		
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		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0		
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		
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		

Certification Summary Information Report

Test Group		TFMXV05.2VEZ		Evaporative/Refueling Family		TFMXR0130NDE	
Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	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		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.01	0		
Evaporative/Refueling Family		TFMXR0130NDE		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		

Certification Summary Information Report

Test Group		TFMXV05.2VEZ	Evaporative/Refueling Family		TFMXR0130NDE
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

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

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

Certification Summary Information Report

Test Group		TFMXV05.2VEZ	Evaporative/Refueling Family		TFMXR0130NDE
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	