

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

CARB USE ONLY

Invoice Name	MSF250262
Invoice Date	Sep 16, 2025

COMPANY INFORMATION

Company Name	Ford Motor Company
Address	1 American Road
City	Dearborn
State	Michigan
Zip	48126-2798
Country	United States
Contact Name	Tina Oliver
Contact Telephone Number	313-3238938
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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_TFMXT03.57AT_APP	Model Year 2026	TFMXT03.57AT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
2	26_CBI_TFMXT03.51F1_APP	Model Year 2026	TFMXT03.51F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
3	26_CBI_TFMXT02.72V6_APP	Model Year 2026	TFMXT02.72V6	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
4	OPCARRYOVER_26_CBI_TF	Model Year 2026	TFMXT02.31EM	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 24,224.00
5	26_CBI_TFMXT03.03V7_APP	Model Year 2026	TFMXT03.03V7	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
6	26_CBI_TFMXT02.71HS_APP	Model Year 2026	TFMXT02.71HS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
7	OPCARRYOVER_26_CBI_TF	Model Year 2026	TFMXT02.36HG	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 24,224.00

Total Due	\$ 290,683.00
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I, _____

(Responsible Party Signature Here)

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

Application for Certification

Part 1



FORD MOTOR COMPANY
APPLICATION FOR CERTIFICATION - PART
1

2026 Model Year

Test Group:	TFMXT02.31EM
Durability Group:	TFMXGPGNNE2A
Evap. Families:	TFMXR0140NDF TFMXR0140NDG
Test Group Description:	2.3L Liter Bronco, LDT2 /LDT3
Durability Group Description:	Four Stroke, Otto Cycle, Gasoline Fueled, Turbocharged, Sequential Fuel Injection, Direct Injection, Catalyst Code E
Applicable Standards:	Federal Exhaust - Tier 3 Bin 30 Federal Evap - Tier 3 California Exhaust - LEV III SULEV30 California Evap - LEV III Cold NMHC FEL - 0.3 g/mi CH4 - 0.030 g/mi N ₂ O - 0.010 g/mi Particulate Matter - 3 mg/mi SFTP FEL - 0.050 g/mi NMOG+NO _x
Carlines Covered:	Bronco 4WD Bronco Badlands 4WD Bronco Sasquatch 4WD

Vehicles Tested

Exhaust Emission Vehicle:		Evaporative Emission Vehicle:	
SG11-2.3-J-058/Config 1		MG11-2.3-J-203/Config 0 (TFMXR0140NDG)	
FTP (E10) TN	SFMX91006130	2Day TN	MFMX10067811
HWY (E10) TN	SFMX91006132	3Day TN	MFMX10068292
US06 (E10) TN	SFMX91006131	Linking TN	MFMX10067778
SC03 (E10) TN	SFMX10087914	ORVR	MFMX10067812
Cold CO (E10) TN	SFMX10087913	RL TN	MFMX10067818
FTP (E0) TN	SFMX10088123	MG11-2.3-J-203/Config 0 (TFMXR0140NDF)	
HWY (E0) TN	SFMX10088126	2Day TN	MFMX10067811
US06 (E0) TN	SFMX10088127	3Day TN	MFMX10068292
SC03 (E0) TN	SFMX10088128	Linking TN	MFMX10067778
Cold CO (E0) TN	SFMX10088129	ORVR	MFMX10067812
		RL TN	MFMX10067818
		301W321/Config 0 (TFMXR0140NDG)	
		BETP	NFMX10071316
		301W321/Config 0 (TFMXR0140NDF)	
		BETP	NFMX10071316

Release Date: February 20, 2026

For Questions, Contact:

Hachem, Nabil, nhachem1@ford.com (1-313-6187783)



Part 1 Application Index

- § **00.00.00.00** **Cover Page**
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- § **03.00.00.00** **Evaporative/ Refueling Family Description**
- § **04.00.00.00** **Durability Procedure Description**
- § **05.00.00.00** **Test Group Description**
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Part 2 Application Index **(Running change updates)**



SECTION 2

Durability Group Description

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



SECTION 3

Evaporative/Refueling Family Description

03.00.00.00

03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Family Name: TFMXR0140NDF (LDT2)
 Evaporative Family Name: TFMXR0140NDG (LDT3)

2026 MY 2.3L GTPFDI Bronco

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Capless Refueling Component Insert MU5A-9D000-AC	None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	
Vapor Hose with ORVR Recirculation Orifice MB3G-9C015-PD (SWB) MB3G-9C015-RE (LWB)	None	Vapor Recirculation	Operates in ORVR	Recirc. Orifice Diameter: 2.5 mm
Combo Fuel Limiting Vent Valve & Grade Vent Valve MB3G-9B190-AB (SWB)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	FLVV Orifice Diameter: 10.2 mm GVV Orifice Diameter: 2.54 mm
Fuel Limiting Vent Valve 9L14-9B190-EA (LWB)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	FLVV Main Orifice Diameter: 9.14 mm FLVV Bypass: 1.25 mm
Grade Vent Valve MB3G-9B593-PB (One per tank on SWB; two per tank on LWB)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	Main Orifice: 4.0 mm Bleed: 1.0 mm
Fuel Tank Pressure Sensor 9U5A-9C052-BC	Fuel Tank Pressure	None	Operates in FTP	
Carbon Canister MB3G-9D653-AC	None	Fuel Vapor	Operates in EVAP and/or ORVR	140g BWC 2.3L Total Volume (includes 0.065L Bleed Element)
Canister Purge Valve EU5A-9G866-BD	Signal from PCM	Vacuum to canister	Operates in FTP	85 SLPM
AIS Hydrocarbon Trap GN15-9T303-AA	None	Fuel Vapor	Operates in EVAP	

NOTE: SWB = Short Wheel Base (2-door) and LWB = Long Wheel Base (4-door)



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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	09/19/2025 12:30:58 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	Spark Ignition direct & ported 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	LDT2, LDT3
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	TFMXGPGNNE2A	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	TFMXT02.02Y5
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 = 16.4, City Litmus Threshold Value = 16.5, Highway Litmus Value = 17.6, Highway Litmus Value = 18.9		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	Update for Correction	Submission/Correction Date	09/16/2025 09:06:40 AM
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	AIS Hydrocarbon Trap
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	See EVAP Family Comments
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	140	Number of Primary Canisters	1
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	1
Mfr Evaporative/Refueling Family Comments	1 X 2.2L HA 3-port Rect. + 1 X 0.065L 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	--		
	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
Leak Family Name	50 State	0.02	--
TFMXR0140NDF-001			

Certification Summary Information Report

Test Group	TFMXT02.31EM		Evaporative/Refueling Family	TFMXR0140NDF			
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	24 - BRONCO 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	29 - BRONCO SASQUATCH 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	29 - BRONCO SASQUATCH 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	27 - BRONCO BADLANDS 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	Federal	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	27 - BRONCO BADLANDS 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	29 - BRONCO SASQUATCH 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	27 - BRONCO BADLANDS 4WD	Federal	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	27 - BRONCO BADLANDS 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	29 - BRONCO SASQUATCH 4WD	Federal	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Engine Description							
Hybrid Type	--		Hybrid Description		--		
Engine Type	4-Stroke Spark Ignition		Mfr Engine Description		--		
Engine Block Arrangement	Inline		Mfr Engine Block Arrangement Description		2.3L I-4		
Camless Valvetrain Indicator	No		Oil Viscosity/Classification		SAE 5W-30 / ILSAC GF-7		
Number of Cylinders/Rotors	4		Mechanically Variable Compression Ratio Indicator		N		
After Treatment Device(s) (ATD)							
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction			
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith			
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith			
Mfr After Treatment Device (ATD) Comments	TWC						
Direct Ozone Reduction (DOR) Device	Not Equipped						
Mfr Emission Control Device Comments	--						

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Engine Configuration Number 1			
Engine Displacement (liters)	2.3	Engine Rated Horsepower	300
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Air
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	2	Number of Air/Fuel Sensors	2
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	WR-HO2S
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	HO2S
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	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		SFMX91006130	SFMX91006131	SFMX10087914	SFMX10087913	SFMX91006132	77.4	228.2	999.9	286.1	1.0

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Gasoline	SFMX91006130	SFMX91006131	SFMX10087914

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF						
Emission Data Vehicle Information									
Vehicle ID / Configuration	301W321 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	NFMXT02.31EM	Original Evaporative/Refueling Family	NFMXR0140NDG						
Original Test Vehicle Model Year	2022								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Bronco						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	NFMXR0140NDG-001						
Drive Sources and Fuel System Details									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Drive Source and Fuel#</th> <th style="width: 33%;">Drive Source</th> <th style="width: 33%;">Fuel</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Combustion Engine</td> <td style="text-align: center;">Gasoline</td> </tr> </tbody> </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	MTG1N3NB00	Rated Horsepower	270						
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	4,000 (mi)						
Curb Weight (lbs)	5136	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6120	N/V Ratio	30.2						
Axle Ratio	4.7								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creeper Gear	No						
Dynamometer Coefficients:									
Target Coefficients			Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)						
City/Highway/Evap	44.07	0.6921	0.04663						
	20.96	0.5259	0.04582						
			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients						
			26						
Emission Control Device Comments	22MY BETP								

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Manufacturer Test Vehicle Comments	2.3L GTDI Bronco 4X4		
Test #	NFMX10071316	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	02/15/2021	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)	0.0151	--

Manufacturer Test Comments E10 Evaporative Test Measurement Method is Manufacturer FID w/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	0.0151	0	0.015	0.020	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0151	0	0.015	0.020	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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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	51.84	0.6755	0.04816	25.85	0.548	0.0465	27.5
Cold CO	51.84	0.6755	0.04816	25.85	0.548	0.0465	N/A
US06	51.84	0.6755	0.04816	25.85	0.548	0.0465	N/A

Emission Control Device Comments T21-0129-01 T3B70 L3B70

Manufacturer Test Vehicle Comments 2.3L GTDI Bronco 4X4

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	MFMX10067778	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	09/22/2020	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	54
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	4795	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	486.46295	--
FE BAG 1 (Bag 1 Fuel Economy)	17.78016	17.78016
CO2 BAG 2 (Bag 2 Carbon Dioxide)	453.93757	--
FE BAG 2 (Bag 2 Fuel Economy)	19.11774	19.11774
CO2 BAG 3 (Bag 3 Carbon Dioxide)	452.73368	--
FE BAG 3 (Bag 3 Fuel Economy)	19.13135	19.13135
METHANE (CH4 - Methane)	0.00838	--
CO (Carbon Monoxide)	0.5004	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.917377	--
DT-EER (Drive Trace Energy Economy Rating)	0.0376276	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.0471	--
MFR FE (Manufacturer Fuel Economy)	18.84256	18.84256
NOX (Nitrogen Oxide)	0.01162	--
N2O (Nitrous Oxide)	0.0008	--
HC-NM (Non-methane Hydrocarbon)	0.0101973	--
NMOG (Non-methane organic gases)	0.0112	--
PM (Particulate Matter)	0.0011645	--
HC-TOTAL (Total Hydrocarbon)	0.01809	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	461	999
Optional Carbon-Related Exhaust Emissions	461	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	460.34213	--

Manufacturer Test Comments NMOG = 1.04 * NMHCr

Test #	MFMX10067811	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	10/09/2020	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	4969	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)
OMHCE (Organic material Hydrocarbon Equivalent)	0.3375	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3375	--

Manufacturer Test Comments --

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	0.3375	0.0000	0.338	0.400	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3375	0.0000	0.338	0.400	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	MFMX10068292	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/16/2020	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	5126	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)
OMHCE (Organic material Hydrocarbon Equivalent)	0.3726	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3726	--

Manufacturer Test Comments --

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	0.3726	0.0000	0.373	0.400	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3726	0.0000	0.373	0.400	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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Test #	MFMX10067812	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	12/02/2020	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	5050	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.098	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.098	--

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	0.098	0.002	0.10	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.098	0.002	0.10	0.20	Pass

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family			TFMXR0140NDF
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	47.41	0.7616	0.03797	25.72	0.7048	0.03507	24.1	
Cold CO	47.41	0.7616	0.03797	25.72	0.7048	0.03507	N/A	
US06	47.41	0.7616	0.03797	25.72	0.7048	0.03507	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	--							

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	SFMX10087913	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	09/30/2024	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	58
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4113	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)	599.335243	--
FE BAG 1 (Bag 1 Fuel Economy)	14.289099	14.289099
CO2 BAG 2 (Bag 2 Carbon Dioxide)	485.257312	--
FE BAG 2 (Bag 2 Fuel Economy)	17.847869	17.847869
CO2 BAG 3 (Bag 3 Carbon Dioxide)	461.069587	--
FE BAG 3 (Bag 3 Fuel Economy)	18.766769	18.766769
METHANE (CH4 - Methane)	0.013147	--
CO (Carbon Monoxide)	0.878923	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.00704	--
DT-EER (Drive Trace Energy Economy Rating)	0.111702	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.33904	--
MFR FE (Manufacturer Fuel Economy)	17.2	17.2
NOX (Nitrogen Oxide)	0.024968	--
HC-NM (Non-methane Hydrocarbon)	0.042388	--
NMOG (Non-methane organic gases)	0.046521	--
HC-TOTAL (Total Hydrocarbon)	0.055669	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	504	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	502.3	--

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 30	CO	0.88	--	--	--	--	--	0.9	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.04	--	--	--	--	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.88	--	--	--	--	--	0.9	12.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	SFMX10088123	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	10/11/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	174
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4233	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)	447.92099	--
FE BAG 1 (Bag 1 Fuel Economy)	19.728891	19.728891
CO2 BAG 2 (Bag 2 Carbon Dioxide)	407.441986	--
FE BAG 2 (Bag 2 Fuel Economy)	21.860967	21.860967
CO2 BAG 3 (Bag 3 Carbon Dioxide)	407.355988	--
FE BAG 3 (Bag 3 Fuel Economy)	21.835515	21.835515
METHANE (CH4 - Methane)	0.007099	--
CO (Carbon Monoxide)	0.633133	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.026536	--
DT-EER (Drive Trace Energy Economy Rating)	-0.102273	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.057974	--
HCHO (Formaldehyde)	0.000187	--
MFR FE (Manufacturer Fuel Economy)	21.3	21.3
NOX (Nitrogen Oxide)	0.008751	--
N2O (Nitrous Oxide)	0.0026	--
HC-NM (Non-methane Hydrocarbon)	0.009347	--
NMOG (Non-methane organic gases)	0.009721	--
PM (Particulate Matter)	0.000269	--
HC-TOTAL (Total Hydrocarbon)	0.015963	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	417	417

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	415.8	--

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 30	CO	0.63	--	--	--	--	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	417	--	--	--	0	--	417	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	HCHO	0.0002	--	--	--	--	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0071	--	--	--	--	--	0.007	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0026	--	--	--	--	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0097	--	1.1	--	--	--	0.010	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0185	--	--	--	--	--	0.018	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0088	--	--	--	--	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.63	--	--	--	--	--	0.6	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	HCHO	0.0002	--	--	--	--	--	0.000	0.004	Pass
CA	150,000 miles	California LEV-III SULEV30	METHANE	0.0071	--	--	--	--	--	0.007	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	N2O	0.0026	--	--	--	--	--	0.003	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0097	--	1.1	--	--	--	0.010	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0185	--	--	--	--	--	0.018	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0088	--	--	--	--	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0003	--	--	--	--	--	0.000	0.003	Pass

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

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	SFMX10088129	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	26 - Cold CO Regular (Tier 2)
Test Date	10/17/2024	Fuel	Gasoline
Fuel Batch ID	307B	Fuel Calibration Number	18
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4300	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)	603.260986	--
FE BAG 1 (Bag 1 Fuel Economy)	14.351054	14.351054
CO2 BAG 2 (Bag 2 Carbon Dioxide)	483.401001	--
FE BAG 2 (Bag 2 Fuel Economy)	18.185374	18.185374
CO2 BAG 3 (Bag 3 Carbon Dioxide)	455.509003	--
FE BAG 3 (Bag 3 Fuel Economy)	19.223612	19.223612
METHANE (CH4 - Methane)	0.019345	--
CO (Carbon Monoxide)	1.28655	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.122888	--
DT-EER (Drive Trace Energy Economy Rating)	-0.068911	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.363453	--
MFR FE (Manufacturer Fuel Economy)	17.5	17.5
NOX (Nitrogen Oxide)	0.057832	--
HC-NM (Non-methane Hydrocarbon)	0.047333	--
NMOG (Non-methane organic gases)	0.049227	--
HC-TOTAL (Total Hydrocarbon)	0.066867	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	503	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	500.6	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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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 30	CO	1.29	--	--	--	--	--	1.3	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.05	--	--	--	--	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	1.29	--	--	--	--	--	1.3	12.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	SFMX91006130	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	11/15/2024	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4421	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)	460.2780762	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	406.6144714	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	416.8672791	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0078845	--
CO (Carbon Monoxide)	0.4275939	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.1602417	--
DT-EER (Drive Trace Energy Economy Rating)	0.4766063	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.5958456	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0078843	--
N2O (Nitrous Oxide)	0.0018803	--
HC-NM (Non-methane Hydrocarbon)	0.0167989	--
NMOG (Non-methane organic gases)	0.0184512	--
PM (Particulate Matter)	0.0003845	--
HC-TOTAL (Total Hydrocarbon)	0.0245049	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	420.540802	--

Manufacturer Test Comments None Unrounded Result for the following test results were modified by Verify: FE BAG 3, FE BAG 2, FE BAG 1, MFR FE

Certification Summary Information Report

Test Group		TFMXT02.31EM				Evaporative/Refueling Family				TFMXR0140NDF		
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 30	CO	0.43	--	--	--	--	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.47	--	--	--	--	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0079	--	--	--	--	--	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0019	--	--	--	--	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0185	--	1.1	--	--	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0264	--	--	--	--	--	0.026	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0206	--	--	--	--	--	0.021	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0079	--	--	--	--	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0004	--	--	--	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.43	--	--	--	--	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.47	--	--	--	--	--	0.5	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	METHANE	0.0079	--	--	--	--	--	0.008	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	N2O	0.0019	--	--	--	--	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0185	--	1.1	--	--	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0264	--	--	--	--	--	0.026	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0206	--	--	--	--	--	0.021	0.050	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0079	--	--	--	--	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	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		TFMXT02.31EM				Evaporative/Refueling Family				TFMXR0140NDF		
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 30	CREE	324	--	--	--	0	--	324	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0069	--	1.03	--	--	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0238	--	--	--	--	--	0.024	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0169	--	--	--	--	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0069	--	1.03	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0238	--	--	--	--	--	0.024	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0169	--	--	--	--	--	0.017	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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	SFMX91006132	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/15/2024	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4432	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)
METHANE (CH4 - Methane)	0.0050398	--
CO (Carbon Monoxide)	0.1856103	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.3963332	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2129697	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.501276	--
MFR FE (Manufacturer Fuel Economy)	26.0147095	--
NOX (Nitrogen Oxide)	0.0089744	--
N2O (Nitrous Oxide)	0.0050564	--
HC-NM (Non-methane Hydrocarbon)	0.0037401	--
NMOG (Non-methane organic gases)	0.0038523	--
HC-TOTAL (Total Hydrocarbon)	0.0086657	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	333.0154114	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		TFMXT02.31EM				Evaporative/Refueling Family				TFMXR0140NDF		
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 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0039	--	1.03	--	--	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0129	--	--	--	--	--	0.013	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0090	--	--	--	--	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0039	--	1.03	--	--	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0129	--	--	--	--	--	0.013	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0090	--	--	--	--	--	0.009	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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	SFMX10088127	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	10/11/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	174
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4265	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)	771.221985	--
FE BAG 1 (Bag 1 Fuel Economy)	11.479629	11.479629
CO2 BAG 2 (Bag 2 Carbon Dioxide)	478.088013	--
FE BAG 2 (Bag 2 Fuel Economy)	18.546462	18.546462
METHANE (CH4 - Methane)	0.008648	--
CO (Carbon Monoxide)	1.63844	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.315288	--
DT-EER (Drive Trace Energy Economy Rating)	-0.28774	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.745923	--
MFR FE (Manufacturer Fuel Economy)	16.3	16.3
NOX (Nitrogen Oxide)	0.055934	--
HC-NM (Non-methane Hydrocarbon)	0.013086	--
NMOG (Non-methane organic gases)	0.013609	--
PM (Particulate Matter)	0.000005	--
HC-TOTAL (Total Hydrocarbon)	0.021145	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	546	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	543.3	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family					TFMXR0140NDF		
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 30	PM	0.0000	--	--	--	--	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0000	--	--	--	--	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	SFMX91006131	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/15/2024	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4456	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)	776.6055298	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	487.571167	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0066807	--
CO (Carbon Monoxide)	0.8349367	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0105974	--
DT-EER (Drive Trace Energy Economy Rating)	-0.9194983	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.3037899	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0244552	--
N2O (Nitrous Oxide)	0.0026904	--
HC-NM (Non-methane Hydrocarbon)	0.0092041	--
NMOG (Non-methane organic gases)	0.0094803	--
PM (Particulate Matter)	0.0006037	--
HC-TOTAL (Total Hydrocarbon)	0.0157335	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	551.5866699	--

Manufacturer Test Comments None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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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 30	PM	0.0006	--	--	--	--	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0006	--	--	--	--	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Test #	SFMX10087914	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/27/2024	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	95
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4099	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)
METHANE (CH4 - Methane)	0.005745	--
CO (Carbon Monoxide)	0.231779	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.488424	--
DT-EER (Drive Trace Energy Economy Rating)	-0.338202	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.286804	--
MFR FE (Manufacturer Fuel Economy)	16.5	16.5
NOX (Nitrogen Oxide)	0.003444	--
HC-NM (Non-methane Hydrocarbon)	0.001659	--
NMOG (Non-methane organic gases)	0.001709	--
HC-TOTAL (Total Hydrocarbon)	0.007463	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	529	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	529.2	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF																																	
Test #	SFMX10088128	Test Procedure	95 - SC03																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																																	
Test Date	10/14/2024	Fuel	N/A																																	
Fuel Batch ID	CERT_5	Fuel Calibration Number	174																																	
Vehicle Class	N/A	DF Type	Mfr. Determined																																	
Verify Test Lab ID	APTL																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	4285	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																																	
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Manufacturer Test Comments	--																																			

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	54
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/31/2020
Fuel Batch Calibration Effective Date	08/31/2020	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 (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17958
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	CERT_5	Fuel Calibration Number	174
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	09/26/2024
Fuel Batch Calibration Effective Date	09/26/2024	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	0.745
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18483
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--
Fuel Batch ID	28637	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/26/2021
Fuel Batch Calibration Effective Date	08/26/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17894
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	307B	Fuel Calibration Number	18
Test Fuel Type	26 - Cold CO Regular (Tier 2)	Fuel Batch Calibration Date	03/31/2023
Fuel Batch Calibration Effective Date	03/31/2023	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.734
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18678
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	95
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	09/26/2024
Fuel Batch Calibration Effective Date	09/26/2024	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	0.751
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17876
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	375-B	Fuel Calibration Number	58
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	09/26/2024
Fuel Batch Calibration Effective Date	09/27/2024	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	0.742
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17921
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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Both
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	California LEV-III SULEV30
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	--	--	--	--	--	--	--	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
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	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	Federal Tier 3 Bin 30
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	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family			TFMXR0140NDF		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30		
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	--	--	--	--	--	--	--	1.0
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	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
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		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III SULEV30		
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	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family			TFMXR0140NDF		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III SULEV30		
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	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30		
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	--	--	--	--	--	--	--	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	--	0.3	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III SULEV30		
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	--	--	--	--	--	--	--	12.5	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	PM	--	--	--	--	--	--	--	0.006	

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF		
Evaporative/Refueling Family	TFMXR0140NDF	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	--	0.400	0.0000
Evaporative/Refueling Family	TFMXR0140NDF	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	--	0.400	0.0000
Evaporative/Refueling Family	TFMXR0140NDF	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	TFMXR0140NDF	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	TFMXR0140NDF	Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Both	Standard Level	California LEV-III 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	0.002

Certification Summary Information Report

Test Group	TFMXT02.31EM		Evaporative/Refueling Family	TFMXR0140NDF	
Evaporative/Refueling Family	TFMXR0140NDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.400	0.0000
Evaporative/Refueling Family	TFMXR0140NDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.400	0.0000
Evaporative/Refueling Family	TFMXR0140NDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
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	TFMXR0140NDF		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	0.002
Evaporative/Refueling Family	TFMXR0140NDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.05	0.000

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDF
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	TFMXT02.31EM	Evaporative/Refueling Family		TFMXR0140NDF
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		TFMXT02.31EM	Evaporative/Refueling Family		TFMXR0140NDF
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	

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	09/19/2025 12:30:58 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	Spark Ignition direct & ported 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	LDT2, LDT3
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	TFMXGPGNNE2A	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	TFMXT02.02Y5
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 = 16.4, City Litmus Threshold Value = 16.5, Highway Litmus Value = 17.6, Highway Litmus Value = 18.9		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	Update for Correction	Submission/Correction Date	09/18/2025 02:05:24 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	AIS Hydrocarbon Trap
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	See comments below
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	140	Number of Primary Canisters	1
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	1
Mfr Evaporative/Refueling Family Comments	1 X 2.2L HA 3-port Rect. + 1 X 0.065L 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
TFMXR0140NDG-001	50 State	0.02	--

Certification Summary Information Report

Test Group	TFMXT02.31EM		Evaporative/Refueling Family	TFMXR0140NDG			
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	24 - BRONCO 4WD	Federal	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	29 - BRONCO SASQUATCH 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	29 - BRONCO SASQUATCH 4WD	Federal	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	27 - BRONCO BADLANDS 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	27 - BRONCO BADLANDS 4WD	Federal	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	27 - BRONCO BADLANDS 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Manual	7	No
Ford Motor Company	1 - Ford	27 - BRONCO BADLANDS 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	29 - BRONCO SASQUATCH 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	29 - BRONCO SASQUATCH 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Engine Description							
Hybrid Type	--		Hybrid Description	--			
Engine Type	4-Stroke Spark Ignition		Mfr Engine Description	--			
Engine Block Arrangement	Inline		Mfr Engine Block Arrangement Description	2.3L I-4			
Camless Valvetrain Indicator	No		Oil Viscosity/Classification	SAE 5W-30 / ILSAC GF-7			
Number of Cylinders/Rotors	4		Mechanically Variable Compression Ratio Indicator	N			
After Treatment Device(s) (ATD)							
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction			
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith			
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith			
Mfr After Treatment Device (ATD) Comments	TWC						
Direct Ozone Reduction (DOR) Device	Not Equipped						
Mfr Emission Control Device Comments	--						

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG								
Engine Configuration Number 1											
Engine Displacement (liters)	2.3	Engine Rated Horsepower	300								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1								
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Air								
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	2	Number of Air/Fuel Sensors	2								
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	WR-HO2S								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	HO2S								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes								
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	Not Applicable	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	SFMX91006130	SFMX91006130	SFMX91006131	SFMX10087914	SFMX10087913	SFMX91006132	77.4	228.2	999.9	286.1	1.0
SFTP LEV-III Official Test Numbers											
Test Group Fuel	Fuel	US06	SC03								
Gasoline	SFMX91006130	SFMX91006131	SFMX10087914								

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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Emission Data Vehicle Information

Vehicle ID / Configuration	301W321 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	NFMXT02.31EM	Original Evaporative/Refueling Family	NFMXR0140NDG
Original Test Vehicle Model Year	2022		

Vehicle Model

Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Bronco
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	NFMXR0140NDG-001
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Drive Sources and Fuel System Details

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

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
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	MTG1N3NB00	Rated Horsepower	270
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	4,000 (mi)
Curb Weight (lbs)	5136	Equivalent Test Weight (pounds)	5500
GVWR (lbs)	6120	N/V Ratio	30.2
Axle Ratio	4.7		
Transmission Type	Semi-Automatic	# of Transmission Gears	10
Transmission Lockup	Yes	Creeper Gear	No

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	44.07	0.6921	0.04663	20.96	0.5259	0.04582	26

Emission Control Device Comments 22MY BETP

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Manufacturer Test Vehicle Comments	2.3L GTDI Bronco 4X4		
Test #	NFMX10071316	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	02/15/2021	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)	0.0151	--

Manufacturer Test Comments E10 Evaporative Test Measurement Method is Manufacturer FID w/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	0.0151	0	0.015	0.020	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0151	0	0.015	0.020	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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Emission Data Vehicle Information

Vehicle ID / Configuration	MG11-2.3-J-203 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	MFMXT02.31EM	Original Evaporative/Refueling Family	MFMXR0140NDG
Original Test Vehicle Model Year	2021		
Vehicle Model			
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Bronco

Leak Family Details

Leak Family Identifier	001	Leak Family Name	MFMXR0140NDG-001
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Drive Sources and Fuel System Details

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

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
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	MTG1N3NB00	Rated Horsepower	270
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	4,000 (mi)
Curb Weight (lbs)	5136	Equivalent Test Weight (pounds)	5500
GVWR (lbs)	6120	N/V Ratio	30.2
Axle Ratio	4.7		
Transmission Type	Semi-Automatic	# of Transmission Gears	10
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family			TFMXR0140NDG
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	51.84	0.6755	0.04816	25.85	0.548	0.0465	27.5	
Cold CO	51.84	0.6755	0.04816	25.85	0.548	0.0465	N/A	
US06	51.84	0.6755	0.04816	25.85	0.548	0.0465	N/A	
Emission Control Device Comments	T21-0129-01 T3B70 L3B70							
Manufacturer Test Vehicle Comments	2.3L GTDI Bronco 4X4							

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	MFMX10067778	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	09/22/2020	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	54
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	4795	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 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)	486.46295	--
FE BAG 1 (Bag 1 Fuel Economy)	17.78016	17.78016
CO2 BAG 2 (Bag 2 Carbon Dioxide)	453.93757	--
FE BAG 2 (Bag 2 Fuel Economy)	19.11774	19.11774
CO2 BAG 3 (Bag 3 Carbon Dioxide)	452.73368	--
FE BAG 3 (Bag 3 Fuel Economy)	19.13135	19.13135
METHANE (CH4 - Methane)	0.00838	--
CO (Carbon Monoxide)	0.5004	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.917377	--
DT-EER (Drive Trace Energy Economy Rating)	0.0376276	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.0471	--
MFR FE (Manufacturer Fuel Economy)	18.84256	18.84256
NOX (Nitrogen Oxide)	0.01162	--
N2O (Nitrous Oxide)	0.0008	--
HC-NM (Non-methane Hydrocarbon)	0.0101973	--
NMOG (Non-methane organic gases)	0.0112	--
PM (Particulate Matter)	0.0011645	--
HC-TOTAL (Total Hydrocarbon)	0.01809	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	461	999
Optional Carbon-Related Exhaust Emissions	461	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	460.34213	--

Manufacturer Test Comments NMOG = 1.04 * NMHCr

Test #	MFMX10067811	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	10/09/2020	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	4969	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)
OMHCE (Organic material Hydrocarbon Equivalent)	0.3375	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3375	--

Manufacturer Test Comments --

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	0.3375	0.0000	0.338	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3375	0.0000	0.338	0.500	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	MFMX10068292	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/16/2020	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	5126	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)
OMHCE (Organic material Hydrocarbon Equivalent)	0.3726	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3726	--

Manufacturer Test Comments --

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	0.3726	0.0000	0.373	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3726	0.0000	0.373	0.500	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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Test #	MFMX10067812	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	12/02/2020	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	5050	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.098	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.098	--

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	0.098	0.002	0.10	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.098	0.002	0.10	0.20	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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Test #	MFMX10067818	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/13/2020	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	5126	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

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 --

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-III Zero Evap (Option 2)	OMHCE	0.000	0.0000	0.00	0.05	Pass

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family			TFMXR0140NDG
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	47.41	0.7616	0.03797	25.72	0.7048	0.03507	24.1	
Cold CO	47.41	0.7616	0.03797	25.72	0.7048	0.03507	N/A	
US06	47.41	0.7616	0.03797	25.72	0.7048	0.03507	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	--							

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX10087913	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	09/30/2024	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	58
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4113	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)	599.335243	--
FE BAG 1 (Bag 1 Fuel Economy)	14.289099	14.289099
CO2 BAG 2 (Bag 2 Carbon Dioxide)	485.257312	--
FE BAG 2 (Bag 2 Fuel Economy)	17.847869	17.847869
CO2 BAG 3 (Bag 3 Carbon Dioxide)	461.069587	--
FE BAG 3 (Bag 3 Fuel Economy)	18.766769	18.766769
METHANE (CH4 - Methane)	0.013147	--
CO (Carbon Monoxide)	0.878923	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.00704	--
DT-EER (Drive Trace Energy Economy Rating)	0.111702	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.33904	--
MFR FE (Manufacturer Fuel Economy)	17.2	17.2
NOX (Nitrogen Oxide)	0.024968	--
HC-NM (Non-methane Hydrocarbon)	0.042388	--
NMOG (Non-methane organic gases)	0.046521	--
HC-TOTAL (Total Hydrocarbon)	0.055669	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	504	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	502.3	--

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 30	CO	0.88	--	--	--	--	--	0.9	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.04	--	--	--	--	--	0.0	0.3	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.88	--	--	--	--	--	0.9	12.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX10088123	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	10/11/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	174
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4233	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)	447.92099	--
FE BAG 1 (Bag 1 Fuel Economy)	19.728891	19.728891
CO2 BAG 2 (Bag 2 Carbon Dioxide)	407.441986	--
FE BAG 2 (Bag 2 Fuel Economy)	21.860967	21.860967
CO2 BAG 3 (Bag 3 Carbon Dioxide)	407.355988	--
FE BAG 3 (Bag 3 Fuel Economy)	21.835515	21.835515
METHANE (CH4 - Methane)	0.007099	--
CO (Carbon Monoxide)	0.633133	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.026536	--
DT-EER (Drive Trace Energy Economy Rating)	-0.102273	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.057974	--
HCHO (Formaldehyde)	0.000187	--
MFR FE (Manufacturer Fuel Economy)	21.3	21.3
NOX (Nitrogen Oxide)	0.008751	--
N2O (Nitrous Oxide)	0.0026	--
HC-NM (Non-methane Hydrocarbon)	0.009347	--
NMOG (Non-methane organic gases)	0.009721	--
PM (Particulate Matter)	0.000269	--
HC-TOTAL (Total Hydrocarbon)	0.015963	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFM XR0140NDG
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	417	417

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	415.8	--

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 30	CO	0.63	--	--	--	--	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	417	--	--	--	0	--	417	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	HCHO	0.0002	--	--	--	--	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0071	--	--	--	--	--	0.007	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0026	--	--	--	--	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0097	--	1.1	--	--	--	0.010	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0185	--	--	--	--	--	0.018	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0088	--	--	--	--	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.63	--	--	--	--	--	0.6	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	HCHO	0.0002	--	--	--	--	--	0.000	0.004	Pass
CA	150,000 miles	California LEV-III SULEV30	METHANE	0.0071	--	--	--	--	--	0.007	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	N2O	0.0026	--	--	--	--	--	0.003	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0097	--	1.1	--	--	--	0.010	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0185	--	--	--	--	--	0.018	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0088	--	--	--	--	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0003	--	--	--	--	--	0.000	0.003	Pass

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

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX10088129	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	26 - Cold CO Regular (Tier 2)
Test Date	10/17/2024	Fuel	Gasoline
Fuel Batch ID	307B	Fuel Calibration Number	18
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4300	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)	603.260986	--
FE BAG 1 (Bag 1 Fuel Economy)	14.351054	14.351054
CO2 BAG 2 (Bag 2 Carbon Dioxide)	483.401001	--
FE BAG 2 (Bag 2 Fuel Economy)	18.185374	18.185374
CO2 BAG 3 (Bag 3 Carbon Dioxide)	455.509003	--
FE BAG 3 (Bag 3 Fuel Economy)	19.223612	19.223612
METHANE (CH4 - Methane)	0.019345	--
CO (Carbon Monoxide)	1.28655	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.122888	--
DT-EER (Drive Trace Energy Economy Rating)	-0.068911	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.363453	--
MFR FE (Manufacturer Fuel Economy)	17.5	17.5
NOX (Nitrogen Oxide)	0.057832	--
HC-NM (Non-methane Hydrocarbon)	0.047333	--
NMOG (Non-methane organic gases)	0.049227	--
HC-TOTAL (Total Hydrocarbon)	0.066867	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	503	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	500.6	--

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family					TFMXR0140NDG			
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 30	CO	1.29	--	--	--	--	--	1.3	12.5	Pass	
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.05	--	--	--	--	--	0.0	0.3	Pass	
CA	50,000 miles	California LEV-III SULEV30	CO	1.29	--	--	--	--	--	1.3	12.5	Pass	

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006130	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	11/15/2024	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4421	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)	460.2780762	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	406.6144714	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	416.8672791	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0078845	--
CO (Carbon Monoxide)	0.4275939	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.1602417	--
DT-EER (Drive Trace Energy Economy Rating)	0.4766063	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.5958456	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0078843	--
N2O (Nitrous Oxide)	0.0018803	--
HC-NM (Non-methane Hydrocarbon)	0.0167989	--
NMOG (Non-methane organic gases)	0.0184512	--
PM (Particulate Matter)	0.0003845	--
HC-TOTAL (Total Hydrocarbon)	0.0245049	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	420.540802	--

Manufacturer Test Comments None Unrounded Result for the following test results were modified by Verify: FE BAG 3, FE BAG 2, FE BAG 1, MFR FE

Certification Summary Information Report

Test Group		TFMXT02.31EM				Evaporative/Refueling Family				TFMXR0140NDG		
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 30	CO	0.43	--	--	--	--	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.47	--	--	--	--	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0079	--	--	--	--	--	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0019	--	--	--	--	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0185	--	1.1	--	--	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0264	--	--	--	--	--	0.026	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0206	--	--	--	--	--	0.021	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0079	--	--	--	--	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0004	--	--	--	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.43	--	--	--	--	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.47	--	--	--	--	--	0.5	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	METHANE	0.0079	--	--	--	--	--	0.008	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	N2O	0.0019	--	--	--	--	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0185	--	1.1	--	--	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0264	--	--	--	--	--	0.026	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0206	--	--	--	--	--	0.021	0.050	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0079	--	--	--	--	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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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 30	CREE	324	--	--	--	0	--	324	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0069	--	1.03	--	--	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0238	--	--	--	--	--	0.024	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0169	--	--	--	--	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0069	--	1.03	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0238	--	--	--	--	--	0.024	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0169	--	--	--	--	--	0.017	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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006132	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/15/2024	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4432	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)
METHANE (CH4 - Methane)	0.0050398	--
CO (Carbon Monoxide)	0.1856103	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.3963332	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2129697	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.501276	--
MFR FE (Manufacturer Fuel Economy)	26.0147095	--
NOX (Nitrogen Oxide)	0.0089744	--
N2O (Nitrous Oxide)	0.0050564	--
HC-NM (Non-methane Hydrocarbon)	0.0037401	--
NMOG (Non-methane organic gases)	0.0038523	--
HC-TOTAL (Total Hydrocarbon)	0.0086657	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	333.0154114	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		TFMXT02.31EM				Evaporative/Refueling Family				TFMXR0140NDG		
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 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0039	--	1.03	--	--	--	0.004	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0129	--	--	--	--	--	0.013	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0090	--	--	--	--	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0039	--	1.03	--	--	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0129	--	--	--	--	--	0.013	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0090	--	--	--	--	--	0.009	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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX10088127	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	10/11/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	174
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4265	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)	771.221985	--
FE BAG 1 (Bag 1 Fuel Economy)	11.479629	11.479629
CO2 BAG 2 (Bag 2 Carbon Dioxide)	478.088013	--
FE BAG 2 (Bag 2 Fuel Economy)	18.546462	18.546462
METHANE (CH4 - Methane)	0.008648	--
CO (Carbon Monoxide)	1.63844	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.315288	--
DT-EER (Drive Trace Energy Economy Rating)	-0.28774	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.745923	--
MFR FE (Manufacturer Fuel Economy)	16.3	16.3
NOX (Nitrogen Oxide)	0.055934	--
HC-NM (Non-methane Hydrocarbon)	0.013086	--
NMOG (Non-methane organic gases)	0.013609	--
PM (Particulate Matter)	0.000005	--
HC-TOTAL (Total Hydrocarbon)	0.021145	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	546	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	543.3	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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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 30	PM	0.0000	--	--	--	--	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0000	--	--	--	--	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006131	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/15/2024	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4456	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)	776.6055298	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	487.571167	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0066807	--
CO (Carbon Monoxide)	0.8349367	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0105974	--
DT-EER (Drive Trace Energy Economy Rating)	-0.9194983	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.3037899	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0244552	--
N2O (Nitrous Oxide)	0.0026904	--
HC-NM (Non-methane Hydrocarbon)	0.0092041	--
NMOG (Non-methane organic gases)	0.0094803	--
PM (Particulate Matter)	0.0006037	--
HC-TOTAL (Total Hydrocarbon)	0.0157335	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	551.5866699	--

Manufacturer Test Comments

None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2

Certification Summary Information Report

Test Group		TFMXT02.31EM				Evaporative/Refueling Family				TFMXR0140NDG		
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 30	PM	0.0006	--	--	--	--	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0006	--	--	--	--	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX10087914	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/27/2024	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	95
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4099	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)
METHANE (CH4 - Methane)	0.005745	--
CO (Carbon Monoxide)	0.231779	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.488424	--
DT-EER (Drive Trace Energy Economy Rating)	-0.338202	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.286804	--
MFR FE (Manufacturer Fuel Economy)	16.5	16.5
NOX (Nitrogen Oxide)	0.003444	--
HC-NM (Non-methane Hydrocarbon)	0.001659	--
NMOG (Non-methane organic gases)	0.001709	--
HC-TOTAL (Total Hydrocarbon)	0.007463	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	529	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	529.2	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG																																	
Test #	SFMX10088128	Test Procedure	95 - SC03																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																																	
Test Date	10/14/2024	Fuel	N/A																																	
Fuel Batch ID	CERT_5	Fuel Calibration Number	174																																	
Vehicle Class	N/A	DF Type	Mfr. Determined																																	
Verify Test Lab ID	APTL																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	4285	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																																	
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																		
Carbon dioxide	530.5	--																																		
Manufacturer Test Comments	--																																			

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	54
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/31/2020
Fuel Batch Calibration Effective Date	08/31/2020	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 (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17958
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	CERT_5	Fuel Calibration Number	174
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	09/26/2024
Fuel Batch Calibration Effective Date	09/26/2024	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	0.745
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18483
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--
Fuel Batch ID	28637	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/26/2021
Fuel Batch Calibration Effective Date	08/26/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17894
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	307B	Fuel Calibration Number	18
Test Fuel Type	26 - Cold CO Regular (Tier 2)	Fuel Batch Calibration Date	03/31/2023
Fuel Batch Calibration Effective Date	03/31/2023	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.734
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18678
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	95
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	09/26/2024
Fuel Batch Calibration Effective Date	09/26/2024	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	0.751
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17876
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	375-B	Fuel Calibration Number	58
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	09/26/2024
Fuel Batch Calibration Effective Date	09/27/2024	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	0.742
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17921
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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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Consolidated List of Standards

Exhaust Standards

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Both
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	California LEV-III SULEV30
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	--	--	--	--	--	--	--	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
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	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	Standard Level	Federal Tier 3 Bin 30
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	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family			TFMXR0140NDG		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30		
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	--	--	--	--	--	--	--	1.0
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	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
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		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III SULEV30		
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	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		TFMXT02.31EM			Evaporative/Refueling Family			TFMXR0140NDG		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III SULEV30		
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	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30		
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	--	--	--	--	--	--	--	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	--	0.3	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III SULEV30		
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	--	--	--	--	--	--	--	12.5	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 30		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	PM	--	--	--	--	--	--	--	0.006	

Evaporative/Refueling Standards

Certification Summary Information Report

Test Group		TFMXT02.31EM		Evaporative/Refueling Family		TFMXR0140NDG	
Evaporative/Refueling Family		TFMXR0140NDG		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	--	0.500	0.0000		
Evaporative/Refueling Family		TFMXR0140NDG		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	--	0.500	0.0000		
Evaporative/Refueling Family		TFMXR0140NDG		Cert Region		California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code		Both		Standard Level			
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.20	0.002		
Evaporative/Refueling Family		TFMXR0140NDG		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		TFMXR0140NDG		Cert Region		California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code		Both		Standard Level			
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	TFMXT02.31EM		Evaporative/Refueling Family	TFMXR0140NDG	
Evaporative/Refueling Family	TFMXR0140NDG		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	TFMXR0140NDG		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.05	0.0000
Evaporative/Refueling Family	TFMXR0140NDG		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.500	0.0000
Evaporative/Refueling Family	TFMXR0140NDG		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.500	0.0000
Evaporative/Refueling Family	TFMXR0140NDG		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	0.002

Certification Summary Information Report

Test Group	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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	TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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		TFMXT02.31EM	Evaporative/Refueling Family	TFMXR0140NDG
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 Common Section for
Statements of Compliance.



SECTION 8

Emission Testing Waiver Statements and Statements of Compliance

Statement of Compliance for test group TFMXT02.31EM

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

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."

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

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

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

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

Please explain any differences.

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

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

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



SECTION 9

OBD-II System Description

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



SECTION 10

Description of Alternate-Fueled Vehicles

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



SECTION 11

AECD Description

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



SECTION 12

Description of Vehicles Covered by Certificate and Testing Parameters

12.00.00.00



SECTION 12

Description of Vehicles Covered by Certificate

and

Testing Parameters

12.00.01.00 Common Family Parameters

Test Group: TFMXT02.31EM - Engine Config Param 1

Test Group Information :	
Vehicle/Engine Class	LDT2,LDT3
Vehicle Fuel Category	Single Fuel
Operating Fuel 1	Gasoline
Operating Fuel 2	N/A
Engine Displacement (liters)	2.3
SAE net HP @ RPM (98 Ron)	300 @ 5500 RPM
SAE net torque ft-lb @ RPM	325 @ 3400 RPM
VECI - Emission Control System	
Air Aspiration Method	Turbocharged
Charge Air Cooler Type	Air
Exhaust Gas Recirculation (EGR)	Yes
Cooled EGR	Yes
Air injection Type (AIR)	Not Applicable
After-Treatment Type	Three-way catalyst
Fuel Metering System 1	Spark Ignition direct & ported injection
Fuel Metering System 2	N/A
Heated oxygen sensor (HO ₂ S)	Yes
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO ₂ S)	Yes
Feedback Sensor Configuration	WR-HO ₂ S, HO ₂ S
Shift Schedules	See Common Section
EVAP Canister working Capacity	See Common Section
EVAP Canister Bed Volume	See Common Section
Fuel Tank Temperature Profile	See Common Section

Cert Code	Calibration	Evaporative	Application	Transmission
TTG1N3NA0002 TTG1N3NC0002	TTG1N3NA06 TTG1N3NC06	TFMXR0140NDF	50States	A/T
TTG1N3N10002 TTG1N3N20002 TTG1N3N30002	TTG1N3N106 TTG1N3N206 TTG1N3N306	TFMXR0140NDF	50States	M/T
TTG1N3NA0002 TTG1N3NC0002	TTG1N3NA06 TTG1N3NC06	TFMXR0140NDG	50States	A/T
TTG1N3N10002 TTG1N3N20002 TTG1N3N30002	TTG1N3N106 TTG1N3N206 TTG1N3N306	TFMXR0140NDG	50States	M/T
TTG1N3NA0003 TTG1N3NC0003	TTG1N3NA07 TTG1N3NC07	TFMXR0140NDF	50States	A/T
TTG1N3N10003 TTG1N3N20003 TTG1N3N30003	TTG1N3N107 TTG1N3N207 TTG1N3N307	TFMXR0140NDF	50States	M/T
TTG1N3NA0003 TTG1N3NC0003	TTG1N3NA07 TTG1N3NC07	TFMXR0140NDG	50States	A/T
TTG1N3N10003 TTG1N3N20003 TTG1N3N30003	TTG1N3N107 TTG1N3N207 TTG1N3N307	TFMXR0140NDG	50States	M/T

Reference Specifications

Spark Plug	JYSP-12YPT Gap: 0.7 +/- 0.05 mm	
Ignition Timing °BTDC (No SPOUT connector)	PCM Controlled	
Idle RPM	PCM Controlled	
Target (Base) in Drive (A/C OFF/A/C ON)	A/T: 825/850	Special conditions which may require idle speeds higher than base are listed below. (See Section 16.05 for descriptions of these strategies):
In Neutral	A/T: 825/850	
In Neutral	M/T: 825/850	

Potential Idle/Drive Speed Modifier Function Utilized (Y/N) Purpose

Low or high air charge temperature	N	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	N	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	Y	Maintain catalyst temperature
Power steering pressure	N	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	N	Increase engine speed to improve cabin heating or cooling
Heated Windshield	N	Maintain charging margin
ETC Failure	Y	Electronic Throttle Failure Min RPM
A/C Adder (50RPM)	Y	NVH Improvement

Emission Component Sensed Parameter Controlled Parameter Justification¹ Calibration

ELECTRONICS – PCM²

FUEL

Fuel Injector	Signal from PCM	Fuel Flow	N/A	Port injection: 139 +/- 4.45 g/min Direct injection: 697.8 g/min
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Regulated Fuel Pressure	Signal from PCM	Fuel Pressure	N/A	Port injection: CLPC Direct injection: CLPC
Fuel Pump	Signal from PCM	Fuel Flow	N/A	Low Pressure: 240 L/h @ 12V & 350kPa High Pressure: 180.7 L/h @ 3250 rpm
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	Throttle Diameter: 62.2 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 "FN1360**" and the entry conditions in function "FN311" or "FN337C"
Open Loop Delay Timers	Time and Gear	Delay open loop fuel	Allows time for downshift; limit enrichment to unusual conditions	See Section 16.00.05.00 for delay time calibration "FN1311" or "HLDTM2" and the maximum open-loop count-up time, "OL_DELAYMAX"
Open Loop Enrichment Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either "CAT_MAX" or "CAT_MAX_LO" and "CAT_MAX_HI" and the time delay on CAT_MAX_LO," "CAT_TMR_THRES"

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
Open Loop Enrichment EGO Protection	Inferred Oxygen Sensor 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"
CRANKCASE Crankcase Ventilation Oil Separator Assembly	Manifold Vacuum	Air Flow to Engine	Operates in FTP	17.0 +/- 2 L/Min @ -60 kPa 35.0 +/- 7 L/Min @ -46.7 kPa 45.0 +/- 4 L/Min @ -26.7 kPa 45.0 +/- 4 L/Min @ -13.3 kPa
Crankcase Ventilation Oil Separator Assembly – Not Heated	Ambient Temp Battery Voltage	PCV Heating	Vehicle Safety	N/A

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
VCT Control Strategy				
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 "FNCAMTQ_IMRC**" or "FN5520_TQ**", or "FN5520_LOAD**"
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 "FN5520A1_TQ"

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 "FNEOTB"
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 "FN556"
Cam Retard Limitation under Hi Torque Demand	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 "FN5521A" or "FN5521A_PTC"
Cam Actuator Limitation for ACT Effects	Air Charge Temperature	Cam Phase Timing	Protection against damage or accident by maintaining combustion stability	See Section 16.00.05.00 for "FN552A"

ENGINE COOLING

Thermostat	Coolant Temperature	Coolant Flow	Engine Protection	Start to Open: 92 °C +1.8 °C / -2 °C
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1 – Justification provided for AEC systems (i.e. sense operating conditions and control the function of an emission component) and not for the individual components.

2 – See Section 16.05 for Strategy Control Systems descriptions

3 – "FTP" represents all tests required for certification

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

2026 MY Exhaust Emissions Parts List
Test Group: TFMXT02.31EM

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
BRONCO SASQUATCH 4WD	Initial	TTG1N3N10002	TTG1N3N106	PTB3A-12A650-TB	09/10/2025
BRONCO BADLANDS 4WD	Initial	TTG1N3N20002	TTG1N3N206	PTB3A-12A650-SB	09/10/2025
BRONCO 4WD	Initial	TTG1N3N30002	TTG1N3N306	PTB3A-12A650-UB	09/10/2025
BRONCO 4WD	Initial	TTG1N3NA0002	TTG1N3NA06	PTB3A-12A650-RB	09/10/2025
BRONCO 4WD	Initial	TTG1N3NC0002	TTG1N3NC06	PTB3A-12A650-PB	09/10/2025
BRONCO SASQUATCH 4WD	RC01	TTG1N3N10003	TTG1N3N107	PTB3A-12A650-TC	10/23/2025
BRONCO BADLANDS 4WD	RC01	TTG1N3N20003	TTG1N3N207	PTB3A-12A650-SC	10/23/2025
BRONCO 4WD	RC01	TTG1N3N30003	TTG1N3N307	PTB3A-12A650-UC	10/23/2025
BRONCO 4WD	RC01	TTG1N3NA0003	TTG1N3NA07	PTB3A-12A650-RC	10/23/2025
BRONCO 4WD	RC01	TTG1N3NC0003	TTG1N3NC07	PTB3A-12A650-PC	10/23/2025

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

Engine Family: TFMXT02.31EM

2026MY2.3L BRONCO

<u>Part Name</u>	<u>Part Number</u>	
Camshaft Position Sensor Assembly	P2GA-12K073-BA P2GA-12K073-BB	(alt)
Catalyst	RB3G-5E211-CA RB3G-5E211-CC	(alt)
Crank Position Sensor	P2GA-6C315-AC	
Cylinder Head Temp Sensor	P2GA-6G004-AB P2GA-6G004-AC	(alt)
EGR Cooler Assy	P2GE-9F464-AB P2GE-9F464-AC	(alt)
EGR Temp Sensor	P2GA-9U498-AE	
EGR Valve	P2GE-9D475-AE	
Electronic Throttle Body	P2GE-9F991-AC	
Engine Coolant Temperature Sensor	P2GA-12A648-AB	
Exhaust Temperature Sensor	SB3G-12B591-AA	
Fuel Injector (DI)	P2GE-9G929-AA P2GE-9G929-BA	(alt)
Fuel Injector (PFI)	P2GE-9F593-AA	
Fuel Pressure Sensor (High Pressure)	P2GE-9F972-AA	
Fuel Pressure Sensor (Low Pressure)	P2GE-9F972-BA	
Fuel Pump High Pressure	P2GE-9D376-AA	
Heated Air/Fuel Sensor (WR-HO2S)	RB3G-9Y460-CA	
Heated Oxygen Sensor (CMS)	RB3G-9G444-BA	
Knock Sensor	JR3A-12A699-AA	
Manifold Absolute Pressure Sensor	LV2A-9F479-BA	
Oil Separator Asy	PB5E-6A785-AG	
Turbo Charger	PB5E-9G438-AE PB5E-9G438-AF PB5E-9G438-BA	(alt) (alt)
VCT Solenoid	P2GE-6B297-AC	
Fuel Pump Low Pressure	ML34-9350-AA	

Vehicle Description Report

Test Group: TFMXT02.31EM

ID Number	5292821	5292833	5292841	5292794	5292804	5292807	5292827	5292843
Displacement	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Cert Code	TTG1N3NA0002	TTG1N3NA0002	TTG1N3NC0002	TTG1N3N10002	TTG1N3N30002	TTG1N3N30002	TTG1N3NA0002	TTG1N3NC0002
Fuel Tank(s)	B2	B2	B1	B1	B2	B2	B2	B1
Carline	BRONCO 4WD	BRONCO BADLANDS 4WD	BRONCO BADLANDS 4WD					
Wheel Configuration	Standard							
Body Style	4 Door	4 Door	2 Door	2 Door	4 Door	4 Door	4 Door	2 Door
Wheelbase	116.0	116.0	100.0	100.0	116.0	116.0	116.0	100.0
Transcode Combo	ETA	ETA	ETA	GQ428N	GQ428N	GQ428N	ETA	ETA
Curb Weight	4635	4866	4352	4332	4613	4847	5112	4794
ETW	5000	5250	4750	4750	5000	5250	5500	5000
Loaded Weight LVW	4935	5166	4652	4632	4913	5147	5412	5094
ALVW-ETW	5250	5500	5000	5000	5250	5500	5500	5250
Adj. Loaded Weight	5277	5487	4946	4936	5267	5478	5636	5267
GVWR	5920	6107	5540	5540	5920	6110	6160	5740
GCWR	8500	8980	8500	8980	8980	8980	8980	8980
Min Axle Ratio	3.73	4.46	3.73	4.46	4.46	4.46	4.46	4.46
Max Axle Ratio	3.73	4.46	3.73	4.46	4.46	4.46	4.7	4.7
Min N/V Ratio	25.7	31.2	27.4	33.3	31.2	31.7	30.1	30.1
Max N/V Ratio	27.4	31.2	27.4	33.3	33.3	31.7	30.2	30.2
Emission Vehicle Class	LDT2	LDT3	LDT2	LDT2	LDT2	LDT3	LDT3	LDT2
Drive Code	Part-time 4-Wheel Drive							
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Manual	Manual	Manual	Semi-Automatic	Semi-Automatic
Calibration Application	50ST							
Min Tire Size	255/70R16 - 27.4	LT265/70R17 - 31.2	255/70R16 - 27.4	255/70R16 - 33.3	255/70R16 - 33.3	LT265/70R17 - 31.7	LT285/70R17 - 30.1	LT285/70R17 - 30.1
Max Tire Size	LT265/70R17 - 26.1	LT265/70R17 - 31.2	255/70R16 - 27.4	255/70R16 - 33.3	LT265/70R17 - 31.7	LT265/70R17 - 31.7	LT315/70R17 - 30.2	LT315/70R17 - 30.2
Alt Tire 1	255/70R18 - 25.7				255/75R17 - 31.2			
Alt Tire 2	255/75R17 - 25.7							
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2084	2195	1985	1980	2082	2195	2270	2184
DAW Empty Tank	1998	2110	1914	1909	1997	2110	2185	2113

Vehicle Description Report

Test Group: TFMXT02.31EM

ID Number	5292795	5292802	5292831	5292828	5292832	5292834	5292840	5292791
Displacement	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Cert Code	TTG1N3N20002	TTG1N3N30002	TTG1N3NA0002	TTG1N3NA0002	TTG1N3NA0002	TTG1N3NA0002	TTG1N3NC0002	TTG1N3N10002
Fuel Tank(s)	B1	B2	B2	B2	B2	B2	B1	B1
Carline	BRONCO BADLANDS 4WD	BRONCO BADLANDS 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD
Wheel Configuration	Standard							
Body Style	2 Door	4 Door	2 Door	2 Door				
Wheelbase	100.0	116.0	116.0	116.0	116.0	116.0	100.0	100.0
Transcode Combo	GQ428N	GQ428N	ETA	ETA	ETA	ETA	ETA	GQ428N
Curb Weight	4851	5095	4846	4892	4895	4994	4634	4602
ETW	5250	5500	5250	5250	5250	5250	5000	5000
Loaded Weight LVW	5151	5395	5146	5192	5195	5294	4934	4902
ALVW-ETW	5250	5500	5500	5500	5500	5500	5250	5250
Adj. Loaded Weight	5295	5618	5433	5456	5438	5550	5167	5151
GVWR	5740	6140	6020	6020	5980	6107	5700	5700
GCWR	8980	8980	8980	8980	8980	8980	8980	8980
Min Axle Ratio	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Max Axle Ratio	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Min N/V Ratio	30.7	30.7	30.2	30.2	30.2	30.2	30.2	30.7
Max N/V Ratio	32.2	32.2	30.2	30.2	30.2	30.2	30.2	30.7
Emission Vehicle Class	LDT2	LDT3	LDT3	LDT3	LDT2	LDT3	LDT2	LDT2
Drive Code	Part-time 4-Wheel Drive							
Trans Type	Manual	Manual	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Manual
Calibration Application	50ST							
Min Tire Size	LT285/70R17 - 32.2	LT285/70R17 - 32.2	LT315/70R17 - 30.2	LT315/70R17 - 30.7				
Max Tire Size	LT315/70R17 - 30.7	LT315/70R17 - 30.7	LT315/70R17 - 30.2	LT315/70R17 - 30.7				
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2216	2263	2181	2202	2210	2253	2137	2120
DAW Empty Tank	2144	2178	2096	2117	2125	2167	2067	2049

Vehicle Description Report

Test Group: TFMXT02.31EM

ID Number	5292803	5292813
Displacement	2.3	2.3
Cert Code	TTG1N3N30002	TTG1N3N30002
Fuel Tank(s)	B2	B2
Carline	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD
Wheel Configuration	Standard	Standard
Body Style	4 Door	4 Door
Wheelbase	116.0	116.0
Transcode Combo	GQ428N	GQ428N
Curb Weight	4873	4971
ETW	5250	5250
Loaded Weight LVW	5173	5271
ALVW-ETW	5500	5500
Adj. Loaded Weight	5427	5541
GVWR	5980	6110
GCWR	8980	8980
Min Axle Ratio	4.7	4.7
Max Axle Ratio	4.7	4.7
Min N/V Ratio	30.7	30.7
Max N/V Ratio	30.7	30.7
Emission Vehicle Class	LDT2	LDT3
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Manual	Manual
Calibration Application	50ST	50ST
Min Tire Size	LT315/70R17 - 30.7	LT315/70R17 - 30.7
Max Tire Size	LT315/70R17 - 30.7	LT315/70R17 - 30.7
Alt Tire 1		
Alt Tire 2		
Alt Tire 3		
Alt Tire 4		
Alt Tire 5		
Alt Tire 6		
Alt Tire 7		
DAW Full Tank	2208	2250
DAW Empty Tank	2123	2164

Vehicle Description Report

Test Group: TFMXT02.31EM

ID Number	5297248	5297249	5297261	5297231	5297236	5297237	5297247	5297262
Displacement	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Cert Code	TTG1N3NA0003	TTG1N3NA0003	TTG1N3NC0003	TTG1N3N10003	TTG1N3N30003	TTG1N3N30003	TTG1N3NA0003	TTG1N3NC0003
Fuel Tank(s)	B2	B2	B1	B1	B2	B2	B2	B1
Carline	BRONCO 4WD	BRONCO BADLANDS 4WD	BRONCO BADLANDS 4WD					
Wheel Configuration	Standard							
Body Style	4 Door	4 Door	2 Door	2 Door	4 Door	4 Door	4 Door	2 Door
Wheelbase	116.0	116.0	100.0	100.0	116.0	116.0	116.0	100.0
Transcode Combo	ETA	ETA	ETA	GQ428N	GQ428N	GQ428N	ETA	ETA
Curb Weight	4614	4893	4369	4350	4592	4871	5139	4898
ETW	5000	5250	4750	4750	5000	5250	5500	5250
Loaded Weight LVW	4914	5193	4669	4650	4892	5171	5439	5198
ALVW-ETW	5250	5500	5000	5000	5250	5500	5500	5250
Adj. Loaded Weight	5267	5500	4955	4945	5256	5490	5649	5319
GVWR	5920	6107	5540	5540	5920	6110	6160	5740
GCWR	8500	8980	8500	8980	8980	8980	8980	8980
Min Axle Ratio	3.73	4.46	3.73	4.46	4.46	4.46	4.46	4.46
Max Axle Ratio	3.73	4.46	3.73	4.46	4.46	4.46	4.7	4.7
Min N/V Ratio	25.7	31.2	27.4	33.3	31.2	31.7	30.1	30.1
Max N/V Ratio	27.4	31.2	27.4	33.3	33.3	31.7	30.2	30.2
Emission Vehicle Class	LDT2	LDT3	LDT2	LDT2	LDT2	LDT3	LDT3	LDT2
Drive Code	Part-time 4-Wheel Drive							
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Manual	Manual	Manual	Semi-Automatic	Semi-Automatic
Calibration Application	50ST							
Min Tire Size	255/70R16 - 27.4	LT265/70R17 - 31.2	255/70R16 - 27.4	255/70R16 - 33.3	255/70R16 - 33.3	LT265/70R17 - 31.7	LT285/70R17 - 30.1	LT285/70R17 - 30.1
Max Tire Size	LT265/70R17 - 26.1	LT265/70R17 - 31.2	255/70R16 - 27.4	255/70R16 - 33.3	LT265/70R17 - 31.7	LT265/70R17 - 31.7	LT315/70R17 - 30.2	LT315/70R17 - 30.2
Alt Tire 1	255/70R18 - 25.7				255/75R17 - 31.2			
Alt Tire 2	255/75R17 - 25.7							
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2061	2209	1989	1987	2059	2207	2292	2242
DAW Empty Tank	1975	2123	1918	1916	1973	2121	2206	2171

Vehicle Description Report

Test Group: TFMXT02.31EM

ID Number	5297233	5297244	5297259	5297258	5297257	5297251	5297264	5297232
Displacement	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Cert Code	TTG1N3N20003	TTG1N3N30003	TTG1N3NA0003	TTG1N3NA0003	TTG1N3NA0003	TTG1N3NA0003	TTG1N3NC0003	TTG1N3N10003
Fuel Tank(s)	B1	B2	B2	B2	B2	B2	B1	B1
Carline	BRONCO BADLANDS 4WD	BRONCO BADLANDS 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD
Wheel Configuration	Standard							
Body Style	2 Door	4 Door	2 Door	2 Door				
Wheelbase	100.0	116.0	116.0	116.0	116.0	116.0	100.0	100.0
Transcode Combo	GQ428N	GQ428N	ETA	ETA	ETA	ETA	ETA	GQ428N
Curb Weight	4878	5119	4811	4872	4905	5001	4604	4584
ETW	5250	5500	5000	5250	5250	5250	5000	5000
Loaded Weight LVW	5178	5419	5111	5172	5205	5301	4904	4884
ALVW-ETW	5250	5500	5500	5500	5500	5500	5250	5250
Adj. Loaded Weight	5309	5629	5415	5446	5442	5554	5152	5142
GVWR	5740	6140	6020	6020	5980	6107	5700	5700
GCWR	8980	8980	8980	8980	8980	8980	8980	8980
Min Axle Ratio	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Max Axle Ratio	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Min N/V Ratio	30.7	30.7	30.2	30.2	30.2	30.2	30.2	30.7
Max N/V Ratio	32.2	32.2	30.2	30.2	30.2	30.2	30.2	30.7
Emission Vehicle Class	LDT2	LDT3	LDT3	LDT3	LDT2	LDT3	LDT2	LDT2
Drive Code	Part-time 4-Wheel Drive							
Trans Type	Manual	Manual	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Manual
Calibration Application	50ST							
Min Tire Size	LT285/70R17 - 32.2	LT285/70R17 - 32.2	LT315/70R17 - 30.2	LT315/70R17 - 30.7				
Max Tire Size	LT315/70R17 - 30.7	LT315/70R17 - 30.7	LT315/70R17 - 30.2	LT315/70R17 - 30.7				
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2237	2290	2165	2191	2210	2251	2106	2101
DAW Empty Tank	2166	2205	2079	2105	2125	2166	2034	2029

Vehicle Description Report

Test Group: TFMXT02.31EM

ID Number	5297246	5297235
Displacement	2.3	2.3
Cert Code	TTG1N3N30003	TTG1N3N30003
Fuel Tank(s)	B2	B2
Carline	BRONCO SASQUATCH 4WD	BRONCO SASQUATCH 4WD
Wheel Configuration	Standard	Standard
Body Style	4 Door	4 Door
Wheelbase	116.0	116.0
Transcode Combo	GQ428N	GQ428N
Curb Weight	4883	4979
ETW	5250	5250
Loaded Weight LVW	5183	5279
ALVW-ETW	5500	5500
Adj. Loaded Weight	5431	5544
GVWR	5980	6110
GCWR	8980	8980
Min Axle Ratio	4.7	4.7
Max Axle Ratio	4.7	4.7
Min N/V Ratio	30.7	30.7
Max N/V Ratio	30.7	30.7
Emission Vehicle Class	LDT2	LDT3
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Manual	Manual
Calibration Application	50ST	50ST
Min Tire Size	LT315/70R17 - 30.7	LT315/70R17 - 30.7
Max Tire Size	LT315/70R17 - 30.7	LT315/70R17 - 30.7
Alt Tire 1		
Alt Tire 2		
Alt Tire 3		
Alt Tire 4		
Alt Tire 5		
Alt Tire 6		
Alt Tire 7		
DAW Full Tank	2208	2249
DAW Empty Tank	2123	2164



SECTION 12

Description of Vehicles Covered by Certificate

and

Testing Parameters

2026 TEST VEHICLE REQUIREMENTS

	Evaporative Emission Vehicle	Evaporative Emission Vehicle	Exhaust Emission Vehicle
Test Group	NFMXT02.31EM	MFMXT02.31EM	SFMXT02.31EM
Evap Emission Family	NFMXR0140NDG	MFMXR0140NDG	SFMXR0140NDG
Displacement	2.3L	2.3L	2.3L
Engine Code	MTG1N3NB00	MTG1N3NB00	STG1N3NA01
Fuel Tank Capacity	22.2 Gal	22.2 Gal	22.2 Gal
Exhaust Control System	TWC, HO2S, WR-HO2S, TC, CAC, DFI, EGR, RC	TWC, HO2S, WR-HO2S, TC, CAC, DFI, EGR, EGRC	TWC, HO2S, WR- HO2S, EGR, EGRC, CAC, TC, DFI, SFI
Model	Bronco	Bronco	Bronco
Transmission	Semi-Auto-10	Semi-Auto-10	Auto-10
Equivalent Test Weight	5500.0	5500.0	5500.0
Curb Weight	5136.0	5136.0	5093.0
GVWR	6120.0	6120.0	6100.0
THP/DPA	26 / f0=44.07, f1=0.6921, f2=0.04663	27.5 / f0=51.84, f1=0.6755, f2=0.04816	24.1 / f0=47.41, f1=0.7616, f2=0.03797
Axle Ratio	4.7	4.7	4.7
N/V Ratio - RPM/MPH	30.2	30.2	30.2
Tires	LT315/70R17	LT315/70R17	
Vehicle ID No	301W321	MG11-2.3-J-203	SG11-2.3-J-058
Configuration Number	0	0	1
Model Year	2022	2021	2025



SECTION 14

Request for Certification

14.00.00.00



**Vehicle Homologation and Compliance
Sustainability, Environmental & Safety Engineering**

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

September 22, 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 light-duty trucks (LDTs) contained in Ford's 50 state test group TFMXT02.31EM and evaporative emission families TFMXR0140NDF and TFMXR0140NDG. The test fuel used is Federal Tier 3 (E10) Fuel.

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

Certification & In-Use FTP Standards (g/mi)	Useful Life	NMOG + NOx (g/mi)	CO (g/mi)	PM (g/mi)	HCHO (g/mi)
Tier 3 Bin 30	150K	0.030	1.0	0.003	0.004

This test group meets the SFTP NMOG+NOx Composite Family Emission Limit (FEL) of 0.050 g/mi and CO FEL of 4.2 g/mi.

In addition, this test group meets the Cold CO standard of 12.5 g/mi. NMHC Family Emission Limit (FEL) of 0.3 g/mi as part of compliance plan to meet corporate fleet average cold NMHC standards.

This test group meets the CH4 standard of 0.030 g/mi and the N2O standard of 0.010 g/mi for the FTP.

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

Tier 3	Useful Life	Evaporative Family (Vehicle Type)	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Certification and In-Use Evaporative Standards	150K	SFMXR0140NDF	0.400 g/test	0.400 g/test	0.05 g/mile	0.20 g/gallon	0.02 grams
		SFMXR0140NDG	0.500 g/test	0.500 g/test			

The fuel spit back 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 Nabil Hachem 313-690-0030, Email nhachem1@ford.com 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



**Vehicle Homologation and Compliance
Sustainability, Environmental & Safety Engineering**

**Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W200
Allen Park, Michigan 48101- 2053**

September 22, 2025

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

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year gasoline-powered light-duty trucks (LDTs) contained in Ford's 50 states test group TFMXT02.31EM and evaporative emission family TFMXR0140NDF and TFMXR0140NDG. The test fuel used is Federal Tier 3 (E10) Fuel. This application aligns with CARB's Manufacturers Advisory Correspondence (MAC) ECCD-2025-8 alternate pathway (1) described on page 2 as follows:

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

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

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

Certification FTP Standards (g/mi)	Useful Life	NMOG+NOX	CO	PM	HCHO
LEVIII SULEV30	150K	0.030	1.0	0.003	0.004

This test group meets the SFTP NMOG+NOx Composite Family Emission Limit (FEL) of 0.050 g/mi and CO FEL of 4.2 g/mi. In addition, this test group meets the Cold CO standard of 12.5 g/mi.

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

LEV 3	Useful Life	Evaporative Family (Vehicle Type)	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Certification and In-Use Evaporative Standards	150K	TFMXR0140NDF	0.400 g/test	0.400 g/test	0.05 g/mile	0.20 g/gallon	0.02 grams
		TFMXR0140NDG	0.500 g/test	0.500 g/test			

The fuel spit back 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.

Please contact Nabil Hachem 313-690-0030, Email nhachem1@ford.com 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: R. Uyehara
M. Desai



SECTION 15

Other Information

15.00.00.00

SAP Manual Payment Request (North America)		REF NO: 306180																																																																						
NAME AND ADDRESS OF PAYEE Environmental Protection Agency-MVECP U.S. Bank - Government Lockbox 979032 1320 Pennsylvania Ave NW - Washington DC 20004-3002 The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically/ACH.		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Employee</td> <td style="width:15%;">Ex-Employee / Board of Director</td> <td style="width:15%;">Company Code</td> <td style="width:15%;">Separate Check</td> <td style="width:15%;">Special Handling/ Instruction Key In 84</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">Y</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;">Supplier Code</td> <td style="text-align: center;">Due Date / Baseline Data</td> <td style="text-align: center;">Currency</td> <td style="text-align: center;">Amount</td> </tr> <tr> <td colspan="2" style="text-align: center;">GXHSA</td> <td style="text-align: center;">ASAP</td> <td style="text-align: center;">USD</td> <td style="text-align: center;">230,573.00</td> </tr> </table>	Employee	Ex-Employee / Board of Director	Company Code	Separate Check	Special Handling/ Instruction Key In 84				Y		Supplier Code		Due Date / Baseline Data	Currency	Amount	GXHSA		ASAP	USD	230,573.00																																																		
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GXHSA		ASAP	USD	230,573.00																																																																				
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Pre-requisites for Payment : <ol style="list-style-type: none"> 1. Requestors or Approvers to ensure the following <ul style="list-style-type: none"> - Receipt of Service - Price Validation - Supported by Invoice or other documentation 2. <u>Uses of Manual Payment Requests</u> 3. <u>Corporate Approval Authorities - Method of Payment</u> 																																																																								
TYPE OF INVOICE: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">MANUAL PAYMENT REQUEST - PERMISSIBLE USES (use drop down with Alt-down arrow key):</td> <td style="width:50%;">Uses of Manual Payment Requests</td> </tr> <tr> <td style="width:50%;"></td> <td style="width:50%;">Not in Uses of Manual Payment Request</td> </tr> </table>			MANUAL PAYMENT REQUEST - PERMISSIBLE USES (use drop down with Alt-down arrow key):	Uses of Manual Payment Requests		Not in Uses of Manual Payment Request																																																																		
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The space below may be used for additional local requirements																																																																								
May 2025 North American Check Request Form (Previous editions without the above fields may NOT be used) Note: Approved forms can be sent to NAFAP@ford.com for processing																																																																								

S A Fee Form

Terry Cowher 313-805-6360
TFMXT02.31EM

Tracking Information
Pay.gov Tracking ID: 27P046CR

Agency Tracking ID: 77074698417

[Help and EPA nstructions](#)

* Required Field

General Information

Date: 06/17/2025

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 *

TFMXT02.31EM

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 7/31/2027

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

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



SECTION 17

California ARB Requirements

17.00.00.00

FoMoCo

Ford Motor Company
VEHICLE EMISSION CONTROL INFORMATION

Conforms to regulations: 2026 MY

U.S. EPA: T3B30 LDT2

OBD:CA OBD II **Fuel:** Gasoline

California: SULEV30 LDT

OBD:CA OBD II **Fuel:** Gasoline

TWC/HO2S/WR-HO2S/EGR/EGRC/CAC/TC/DFI/SFI

No adjustments needed.

2.3L-Group: TFMXT02.31EM Evap: TFMXR0140NDF

▽ TW7E-9C485- **L J E**



FoMoCo

Ford Motor Company
VEHICLE EMISSION CONTROL INFORMATION

Conforms to regulations: 2026 MY

U.S. EPA: T3B30 LDT3

OBD:CA OBD II **Fuel:** Gasoline

California: SULEV30 LDT

OBD:CA OBD II **Fuel:** Gasoline

TWC/HO2S/WR-HO2S/EGR/EGRC/CAC/TC/DFI/SFI

No adjustments needed.

2.3L-Group: TFMXT02.31EM Evap: TFMXR0140NDG

▽ TW7E-9C485- **L S T**





SECTION 18

Revisions

18.00.00.00

2026 APPLICATION REVISIONS

NO.	DATE	PAGE(S)	DESCRIPTION
1	10/23/2025	12.00.02.00 12.00.03.00 12.00.06.00 16.00.05.00 18.00.00.00	<u>RC1 R07 Changes:</u> This 2026 2.3L U725 R07 release is for the 2026 Model Year Job1 which is carryover 2025 Calibration for Emissions and OBD self cert and has no impact to Fuel Economy, Evaporative Emissions, and Tailpipe Emissions. The OBD self Cert is still representative from the prior release.

WP 03.14.01-15455

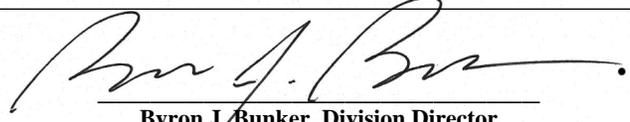
Test Group: TFMXT02.31EM
Issued: 10/23/2025
Revised:

18.00.01.00



**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: TFMXT02.31EM-048	<u>Effective Date:</u> 09/26/2025 <u>Expiration Date:</u> 12/31/2026	 <hr/> Byron J. Bunker, Division Director Compliance Division	<u>Issue Date:</u> 09/26/2025 <u>Revision Date:</u> N/A
--	---	--	--

Test Group Name: TFMXT02.31EM Evaporative/Refueling Family Name: TFMXR0140NDG Applicable Exhaust Emission Standards: Federal Tier 3 Bin 30 Applicable Evaporative/Refueling Standards: Federal Tier 3 Evap	Engine Displacement: 2.3 Liters Exhaust Emission Test Fuel Type: Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) Full Useful Life Miles: Exhaust Emissions: 150,000 miles Full Useful Life Miles: Evaporative/Refueling Emissions: 150,000 miles
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Models Covered: Ford: BRONCO 4WD, BRONCO BADLANDS 4WD, BRONCO SASQUATCH 4WD

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.

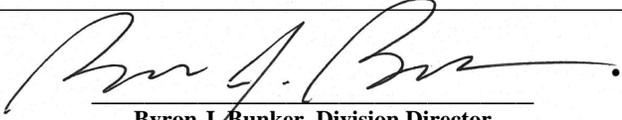
Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded fuel. This certificate is issued subject to the conditions specified in 40 CFR 80.24. 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.



**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: TFMXT02.31EM-052	<u>Effective Date:</u> 09/29/2025 <u>Expiration Date:</u> 12/31/2026	 <hr/> Byron J. Bunker, Division Director Compliance Division	<u>Issue Date:</u> 09/29/2025 <u>Revision Date:</u> N/A
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Test Group Name: TFMXT02.31EM Evaporative/Refueling Family Name: TFMXR0140NDF Applicable Exhaust Emission Standards: Federal Tier 3 Bin 30 Applicable Evaporative/Refueling Standards: Federal Tier 3 Evap	Engine Displacement: 2.3 Liters Exhaust Emission Test Fuel Type: Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) Full Useful Life Miles: Exhaust Emissions: 150,000 miles Full Useful Life Miles: Evaporative/Refueling Emissions: 150,000 miles
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Models Covered: Ford: BRONCO 4WD, BRONCO BADLANDS 4WD, BRONCO SASQUATCH 4WD

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.



FORD MOTOR COMPANY

Executive Order: A-010-2658
 New Passenger Cars, Light-Duty Trucks and
 Medium-Duty Vehicles
 Page 1 of 4

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 Sections 39515 and 39516 and Executive Order G-19-095;

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

TEST GROUP INFORMATION						
MODEL YEAR	TEST GROUP	VEHICLE CLASS(ES)		FUEL CATEGORY	FUEL TYPE	
2026	TFMXT02.31EM	LDT2, LDT3		DEDICATED SINGLE FUEL VEHICLE	GASOLINE	
USEFUL LIFE (miles)		VEHICLE EMISSION CATEGORY			INTERIM / INTERMEDIATE IN-USE STD	
EXH/ORVR	EVAP	FTP	SFTP	FTP	SFTP	
150000	150000	LEV3 SULEV30	LEV3 COMPOSITE	*	*	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS			OBD STATUS		ENGINE DISPLACEMENT (L)	
1	TWC, DFI, SFI, WR-HO2S, HO2S, CAC, TC, EGR, EGRC		FULL	*	2.3	
*	*		PARTIAL	ALL MODELS		
*	*					
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION						
EVAP / ORVR FAMILY		EVAPORATIVE STD CATEGORY		EVAP EMISSION STD VEHICLE CLASS		SPECIAL FEATURES
TFMXR0140NDF		LEV 3 OPTION2 WITH FEL		LDT2		HCT
TFMXR0140NDG		LEV 3 OPTION2 WITH FEL		LDT3		HCT
EMISSION CREDIT INFORMATION						
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY		NMOG CREDIT FOR NON-PZEV ZERO-EVAP		NMOG CREDIT FOR DOR		OPTIONAL EXH. STD FOR WORK TRUCKS
N		N		N		N
NMOG AND FLEET AVERAGE INFORMATION						
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)
*	*	1.10	*	0.030	0.030	*

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)



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BE IT FURTHER RESOLVED: Manufacturer requested an Executive Order. This Executive Order certifies the test group meets the standards for which certification was requested.

BE IT FURTHER RESOLVED: The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° 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 requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c)(3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV are to be equalized as required.

BE IT FURTHER RESOLVED: For the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

BE IT FURTHER RESOLVED: The California Air Resources Board adopted emergency vehicle emissions regulations (the "Emergency Vehicle Emissions Regulation") that amend California Code of Regulations, Titles 13 and 17, and adopt new sections into California Code of Regulations, Titles 13 and 17. The amendments confirm that, until a court resolves the uncertainty created by the federal government's actions, certain antecedent regulations (displaced by Advanced Clean Cars II) remain operative (as previously adopted) with the caveat that CARB may enforce Advanced Clean Cars II, to the extent permitted by law, in the event a court of law holds invalid the resolution purporting to disapprove those waivers.

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

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed on this 17th day of December 2025.

Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

	FUEL TYPE	CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; 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; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP									
		NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE-TIER3 E10	0.026	0.030	0.4	1.0	*	*	0	4	0.000	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+NOx (g/mi)		CO (g/mi)	
		CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	GASOLINE-TIER3 E10	0.013	0.030		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.9	12.5

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		US06			SC03		COMPOSITE		
			NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
@ UL	GASOLINE-TIER3 E10	CERT	*	*	1	*	*	0.021	0.5	*
		STD	*	*	6	*	*	0.050	4.2	*
		BIN						0.050		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	FUEL TYPE	WHOLE VEHICLE EVAPORATIVE TESTING						RL (g/mi) @ UL	
		3DHS (g/test) @ UL			2DHS (g/test) @ UL				
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD
TFMXR0140NDF	GASOLINE-TIER3 E10	0.373	0.400	0.400	0.338	0.400	0.400	0.00	0.05
TFMXR0140NDG	GASOLINE-TIER3 E10	0.373	0.500	0.500	0.338	0.500	0.500	0.00	0.05



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ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL ONLY EVAP & CANISTER BLEED						
	FUEL TYPE	CERT	STD	FUEL TYPE	3DHS RIG TEST (g/test) @ UL		2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K	
					CERT	STD	CERT	STD	CERT	STD
TFMXR0140NDF	GASOLINE-TIER3 E10	0.10	0.20	GASOLINE-TIER3 E10	*	*	*	*	0.015	0.020
TFMXR0140NDG	GASOLINE-TIER3 E10	0.10	0.20	GASOLINE-TIER3 E10	*	*	*	*	0.015	0.020

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)

EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD
TFMXR0140NDF	TFMXR0140NDF-001	*	0.02
TFMXR0140NDG	TFMXR0140NDG-001	*	0.02

*: not applicable; #: 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; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; 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; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption 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; cGPF (coated gasoline particulate filter); HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; 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; CAC: charge air cooler; FFH: fuel fired heater; F/P: full/partial on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; 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; E85: "85%" ethanol ("15%" gasoline) fuel; E10: "10%" ethanol ("90%" gasoline) fuel; A: automatic (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; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

2026 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	BRONCO 4WD	LDT2	2.3	M7	TFMXR0140NDF	1	P
FORD	BRONCO 4WD	LDT2	2.3	SA10	TFMXR0140NDF	1	P
FORD	BRONCO 4WD	LDT3	2.3	SA10	TFMXR0140NDG	1	P
FORD	BRONCO 4WD	LDT3	2.3	M7	TFMXR0140NDG	1	P
FORD	BRONCO BADLANDS 4WD	LDT2	2.3	M7	TFMXR0140NDF	1	P
FORD	BRONCO BADLANDS 4WD	LDT2	2.3	SA10	TFMXR0140NDF	1	P
FORD	BRONCO BADLANDS 4WD	LDT3	2.3	M7	TFMXR0140NDG	1	P
FORD	BRONCO SASQUATCH 4WD	LDT2	2.3	M7	TFMXR0140NDF	1	P
FORD	BRONCO SASQUATCH 4WD	LDT2	2.3	SA10	TFMXR0140NDF	1	P
FORD	BRONCO SASQUATCH 4WD	LDT3	2.3	SA10	TFMXR0140NDG	1	P
FORD	BRONCO SASQUATCH 4WD	LDT3	2.3	M7	TFMXR0140NDG	1	P

Application for Certification

Part 2