

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
Contact Email	toliver@ford.com
CARB Customer Number	CCAM000031

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	26_CBI_TFMXT03.57AT_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,  _____

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

(Responsible Party Signature Here)

Application for Certification

Part 1



**FORD MOTOR COMPANY
APPLICATION FOR CERTIFICATION - PART 1**

2026 Model Year

Test Group: TFMXT02.36HG
Durability Group: TFMXGPGNNE2A
Evap. Families: TFMXR0140NDG
Test Group Description: 2.3L I-4
Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled, Turbocharged, Catalyst Code E
Applicable Standards: Federal Exhaust - Tier 3 Bin 30
 Federal Evap - Tier 3
 California Evap - LEV-III
 CH₄ - 0.030 g/mi
 Federal Cold NMHC - 0.3 g/mi
 Federal Particulate Matter - 0.003 g/mi
 N₂O - 0.010 g/mi
 SFTP - 0.050 g/mi NMOG+NOx
 California Exhaust - LEV-III SULEV30
 California Particulate Matter - 0.003 g/mi

Carlines Covered: RANGER 2WD
 RANGER 4WD

Vehicles Tested

Exhaust Emission Vehicle:		Evaporative Emission Vehicle:	
SRD1-2.3-J-054/Config 0		MG11-2.3-J-203/Config 0 (TFMXR0140NDG)	
FTP (E10) TN	SFMX91006062	2Day TN	MFMX10067811
HWY (E10) TN	SFMX91006064	3Day TN	MFMX10068292
US06 (E10) TN	SFMX91006063	Linking TN	MFMX10067778
SC03 (E10) TN	SFMX10087706	ORVR	MFMX10067812
Cold CO (E10) TN	SFMX10087705	RL TN	MFMX10067818
FTP (E0) TN	SFMX91006080	301W321/Config 0 (TFMXR0140NDG)	
HWY (E0) TN	SFMX91006081	BETP	NFMX10071316
US06 (E0) TN	SFMX91006082		
SC03 (E0) TN	SFMX10087677		
Cold CO (E0) TN	SFMX10087676		

Release Date: February 23, 2026

For Questions, Contact:
 Friedman, Avi, afriedm4@ford.com (1-313-5903505)



Part 1 Application Index

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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: TFMXR0140NDG

2026 MY 2.3L GTPFDI Ranger

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Fuel Filler Pipe Assembly with Capless Insert MB3G-9032-DG	None	Fuel Tank Vapor, Liquid Fuel Flow, Vapor Recirculation	Operates in EVAP and/or ORVR	Recirc. Orifice Diameter: 2.75 mm
Fuel Limiting Vent Valve 9L34-9B190-AA	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 G1FY-9B593-RA (two per tank)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	Main Orifice: 3.1 mm Bleed: 0.8 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	



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

Test Group	TFMXT02.36HG	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	--				
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	160 - RANGER 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	160 - RANGER 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	161 - RANGER 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	161 - RANGER 4WD	California + CAA Section 177 states	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				

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG								
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal	Substrate Material								
1	Three-way catalyst	Palladium + Rhodium	Ceramic								
2	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic								
Mfr After Treatment Device (ATD) Comments											
		TWC									
Direct Ozone Reduction (DOR) Device											
		Not Equipped									
Mfr Emission Control Device Comments											
--											
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	SFMX91006062	SFMX91006063	SFMX10087706	SFMX10087705	SFMX91006064	85.7	228.2	999.9	286.1	1.0	

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	SFMX91006062	SFMX91006063	SFMX10087706

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG						
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	TFMXT02.36HG	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	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
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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	TFMXT02.36HG	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	TFMXT02.36HG	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	TFMXT02.36HG	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	TFMXT02.36HG	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	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG						
Emission Data Vehicle Information									
Vehicle ID / Configuration	SRD1-2.3-J-054 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SFMXT02.36HG	Original Evaporative/Refueling Family	SFMXR0140NDG						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	RANGER 4WD						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SFMXR0140NDG-001						
Drive Sources and Fuel System Details									
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>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	STRDN3NA92	Rated Horsepower	300						
Displacement (liters)	2.3								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)						
Curb Weight (lbs)	4481	Equivalent Test Weight (pounds)	4750						
GVWR (lbs)	6170	N/V Ratio	26.5						
Axle Ratio	3.73								
Transmission Type	Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creeper Gear	No						

Certification Summary Information Report

Test Group		TFMXT02.36HG			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	36.46	0.1423	0.03379	16.73	0.1347	0.03113	17.1	
Cold CO	36.46	0.1423	0.03379	16.73	0.1347	0.03113	N/A	
US06	36.46	0.1423	0.03379	16.73	0.1347	0.03113	N/A	
Emission Control Device Comments	T3B30/SULEV30							
Manufacturer Test Vehicle Comments	2.3L Ford Ranger							

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX10087676	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	26 - Cold CO Regular (Tier 2)
Test Date	08/16/2024	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	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4009	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)	543.590027	--
FE BAG 1 (Bag 1 Fuel Economy)	15.95165	15.95165
CO2 BAG 2 (Bag 2 Carbon Dioxide)	448.968994	--
FE BAG 2 (Bag 2 Fuel Economy)	19.564471	19.564471
CO2 BAG 3 (Bag 3 Carbon Dioxide)	401.61499	--
FE BAG 3 (Bag 3 Fuel Economy)	21.834361	21.834361
METHANE (CH4 - Methane)	0.011398	--
CO (Carbon Monoxide)	0.883442	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.051434	--
DT-EER (Drive Trace Energy Economy Rating)	-0.428878	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.062979	--
MFR FE (Manufacturer Fuel Economy)	19.2	19.2
NOX (Nitrogen Oxide)	0.01715	--
NMOG (Non-methane organic gases)	0.032778	--
HC-TOTAL (Total Hydrocarbon)	0.043026	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	458	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	455.6	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	TFMXT02.36HG	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	50,000 miles	Federal Tier 3 Bin 30	CO	0.88	--	--	--	--	--	0.9	12.5	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.88	--	--	--	--	--	0.9	12.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX10087705	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	08/11/2024	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	56
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	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3928	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)	527.187848	--
FE BAG 1 (Bag 1 Fuel Economy)	16.129818	16.129818
CO2 BAG 2 (Bag 2 Carbon Dioxide)	443.405504	--
FE BAG 2 (Bag 2 Fuel Economy)	19.451516	19.451516
CO2 BAG 3 (Bag 3 Carbon Dioxide)	392.919345	--
FE BAG 3 (Bag 3 Fuel Economy)	21.924953	21.924953
METHANE (CH4 - Methane)	0.011741	--
CO (Carbon Monoxide)	0.908097	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.868634	--
DT-EER (Drive Trace Energy Economy Rating)	0.02286	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.19047	--
MFR FE (Manufacturer Fuel Economy)	19.2	19.2
NOX (Nitrogen Oxide)	0.01842	--
NMOG (Non-methane organic gases)	0.047802	--
HC-TOTAL (Total Hydrocarbon)	0.055415	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	449	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	446.9	--

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
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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	0.91	--	--	--	--	--	0.9	12.5	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.91	--	--	--	--	--	0.9	12.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006062	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	10/02/2024	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	4102	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)	414.5887146	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	384.1575623	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	370.5146484	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0070995	--
CO (Carbon Monoxide)	0.4295848	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.3510667	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3952667	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.8901581	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0083612	--
N2O (Nitrous Oxide)	0.0013457	--
HC-NM (Non-methane Hydrocarbon)	0.0160305	--
NMOG (Non-methane organic gases)	0.0176073	--
PM (Particulate Matter)	0.0004024	--
HC-TOTAL (Total Hydrocarbon)	0.0229974	--

Certification Summary Information Report

Test Group	TFMXT02.36HG	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	386.7246399	--

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 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	0.36	--	--	--	--	--	0.4	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	0.0071	--	--	--	--	--	0.007	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0013	--	--	--	--	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0176	--	1.1	--	--	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0260	--	--	--	--	--	0.026	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0177	--	--	--	--	--	0.018	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0084	--	--	--	--	--	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	0.36	--	--	--	--	--	0.4	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0176	--	1.1	--	--	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0260	--	--	--	--	--	0.026	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0177	--	--	--	--	--	0.018	0.050	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0084	--	--	--	--	--	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	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006080	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	10/09/2024	Fuel	Gasoline
Fuel Batch ID	29351	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	4194	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)	422.618103	--
FE BAG 1 (Bag 1 Fuel Economy)	20.9685726	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	387.9432678	--
FE BAG 2 (Bag 2 Fuel Economy)	22.9718781	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	371.3951721	--
FE BAG 3 (Bag 3 Fuel Economy)	23.9864521	--
METHANE (CH4 - Methane)	0.0108416	--
CO (Carbon Monoxide)	0.3260122	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.608497	--
DT-EER (Drive Trace Energy Economy Rating)	0.0092695	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.0686285	--
MFR FE (Manufacturer Fuel Economy)	22.7845821	--
NOX (Nitrogen Oxide)	0.0078765	--
N2O (Nitrous Oxide)	0.0048766	--
HC-NM (Non-methane Hydrocarbon)	0.0064676	--
NMOG (Non-methane organic gases)	0.0067264	--
HC-TOTAL (Total Hydrocarbon)	0.0170637	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	392

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	390.598114	--

Manufacturer Test Comments None

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	0.33	--	--	--	--	--	0.3	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	392	--	--	--	0	--	392	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0108	--	--	--	--	--	0.011	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0049	--	--	--	--	--	0.005	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0067	--	1.1	--	--	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0146	--	--	--	--	--	0.015	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0079	--	--	--	--	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.33	--	--	--	--	--	0.3	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0067	--	1.1	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0146	--	--	--	--	--	0.015	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0079	--	--	--	--	--	0.008	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	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006064	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	10/02/2024	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	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)
METHANE (CH4 - Methane)	0.0026726	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.3866034	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2447655	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.099103	--
MFR FE (Manufacturer Fuel Economy)	31.1454926	--
NOX (Nitrogen Oxide)	0.001351	--
N2O (Nitrous Oxide)	0.0003421	--
HC-NM (Non-methane Hydrocarbon)	0.0002313	--
NMOG (Non-methane organic gases)	0.0002382	--
HC-TOTAL (Total Hydrocarbon)	0.0028665	--

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	278.4126282	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		TFMXT02.36HG				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	0.0002	--	1.03	--	--	--	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0016	--	--	--	--	--	0.002	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0014	--	--	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0002	--	1.03	--	--	--	0.000	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0016	--	--	--	--	--	0.002	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0014	--	--	--	--	--	0.001	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	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006081	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	10/09/2024	Fuel	Gasoline
Fuel Batch ID	29351	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	4205	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)	0.0107075	--
CO (Carbon Monoxide)	0.3996584	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	10.5846109	--
DT-EER (Drive Trace Energy Economy Rating)	0.4584714	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	13.4687233	--
MFR FE (Manufacturer Fuel Economy)	31.1956367	--
NOX (Nitrogen Oxide)	0.0143119	--
N2O (Nitrous Oxide)	0.0092585	--
HC-NM (Non-methane Hydrocarbon)	0.0114436	--
NMOG (Non-methane organic gases)	0.0119013	--
HC-TOTAL (Total Hydrocarbon)	0.0219086	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	286

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	285.0001221	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		TFMXT02.36HG				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	286	--	--	--	0	--	286	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0119	--	1.03	--	--	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0262	--	--	--	--	--	0.026	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0143	--	--	--	--	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0119	--	1.03	--	--	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0262	--	--	--	--	--	0.026	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0143	--	--	--	--	--	0.014	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	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006063	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	10/02/2024	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	4137	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)	633.7241211	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	361.605011	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0057424	--
CO (Carbon Monoxide)	0.6255289	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.1262057	--
DT-EER (Drive Trace Energy Economy Rating)	-2.3100097	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.0537472	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0180568	--
N2O (Nitrous Oxide)	0.0036671	--
HC-NM (Non-methane Hydrocarbon)	0.0081661	--
NMOG (Non-methane organic gases)	0.0084111	--
PM (Particulate Matter)	0.0004107	--
HC-TOTAL (Total Hydrocarbon)	0.0138282	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	422.4621277	--

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		TFMXT02.36HG				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	0.0004	--	--	--	--	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0084	--	1.03	--	--	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0181	--	--	--	--	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0004	--	--	--	--	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX91006082	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	10/09/2024	Fuel	Gasoline
Fuel Batch ID	29351	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	4229	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)	646.1895752	--
FE BAG 1 (Bag 1 Fuel Economy)	13.7436714	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	367.848938	--
FE BAG 2 (Bag 2 Fuel Economy)	24.1643066	--
METHANE (CH4 - Methane)	0.0083435	--
CO (Carbon Monoxide)	0.7699962	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.5881769	--
DT-EER (Drive Trace Energy Economy Rating)	-0.7723566	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.6961858	--
MFR FE (Manufacturer Fuel Economy)	20.6696301	--
NOX (Nitrogen Oxide)	0.0377308	--
N2O (Nitrous Oxide)	0.0069263	--
HC-NM (Non-methane Hydrocarbon)	0.0118436	--
NMOG (Non-methane organic gases)	0.0123174	--
HC-TOTAL (Total Hydrocarbon)	0.0199982	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	429.915741	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group	TFMXT02.36HG	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
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0123	--	1.03	--	--	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0377	--	--	--	--	--	0.038	999.999	Pass

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
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Test #	SFMX10087677	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	08/14/2024	Fuel	N/A
Fuel Batch ID	CERT_5	Fuel Calibration Number	172
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	3995	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)	417.923004	--
FE BAG 1 (Bag 1 Fuel Economy)	21.266295	21.266295
CO2 BAG 2 (Bag 2 Carbon Dioxide)	417.923004	--
FE BAG 2 (Bag 2 Fuel Economy)	21.266295	21.266295
METHANE (CH4 - Methane)	0.006529	--
CO (Carbon Monoxide)	0.181092	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.239054	--
DT-EER (Drive Trace Energy Economy Rating)	-0.035494	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.523862	--
MFR FE (Manufacturer Fuel Economy)	21.3	21.3
NOX (Nitrogen Oxide)	0.002242	--
NMOG (Non-methane organic gases)	0.001601	--
HC-TOTAL (Total Hydrocarbon)	0.008132	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	418	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	417.9	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Test #	SFMX10087706	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	08/02/2024	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	91
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	3903	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)	0.005494	--
CO (Carbon Monoxide)	0.080777	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.381783	--
DT-EER (Drive Trace Energy Economy Rating)	-0.378521	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.708629	--
MFR FE (Manufacturer Fuel Economy)	18.519889	18.519889
NOX (Nitrogen Oxide)	0.002858	--
HC-NM (Non-methane Hydrocarbon)	0.000292	--
NMOG (Non-methane organic gases)	0.000301	--
HC-TOTAL (Total Hydrocarbon)	0.006171	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	471	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	91
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/25/2024
Fuel Batch Calibration Effective Date	07/25/2024	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 (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17869
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	29351	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	05/03/2023
Fuel Batch Calibration Effective Date	05/03/2023	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	0.742
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18439
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.867	Weight Fraction CO2	--
Fuel Batch ID	CERT_5	Fuel Calibration Number	172
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	07/30/2024
Fuel Batch Calibration Effective Date	07/30/2024	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	0.748
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18524
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	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	--

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFM XR0140NDG
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	--
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	375-B	Fuel Calibration Number	56
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	07/25/2024
Fuel Batch Calibration Effective Date	07/25/2024	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)	18020
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	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	--

Certification Summary Information Report

Test Group	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG
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Certification Summary Information Report

Test Group	TFMXT02.36HG	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	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	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

Certification Summary Information Report

Test Group		TFMXT02.36HG			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			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

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

Certification Summary Information Report

Test Group	TFMXT02.36HG			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			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

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

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	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.006

Evaporative/Refueling Standards

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		

Certification Summary Information Report

Test Group	TFMXT02.36HG		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	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	California + CAA Section 177 states	
Cert/In-Use Code	Both		Standard Level	California LEV-III Zero Evap (Option 2)	
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0
Evaporative/Refueling Family	TFMXR0140NDG		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
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	TFMXT02.36HG	Evaporative/Refueling Family	TFMXR0140NDG		
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	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 Federal Tier 3 Evap		
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	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

Certification Summary Information Report

Test Group	TFMXT02.36HG	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	TFMXT02.36HG	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		TFMXT02.36HG	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 TFMXT02.36HG

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

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

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

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

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

Please explain any differences.

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

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

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



SECTION 9

OBD-II System Description

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



SECTION 10

Description of Alternate-Fueled Vehicles

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



SECTION 11

AECD Description

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



SECTION 12

Description of Vehicles Covered by Certificate and Testing Parameters

12.00.00.00

12.00.01.00 Common Family Parameters

Test Group: TFMXT02.36HG - Engine Config Param 1

Test Group Information :	
Vehicle/Engine Class	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 @ 3000 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

Exhaust Calibration	Certification Code	Evaporative Family	Application	Transmission	Vehicle
TTRDN3NA06	TTRDN3NA0002	TFMXR0140NDG	50ST	A/T	2.3L Ranger

Reference Specifications		
Spark Plug	P2GE-12405-AA 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: 700/750	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/C OFF/A/C ON)	A/T: 700/750	

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
High auxiliary loads	N	Belt tensioner durability on BiSG and HV Motor cooling
Eco Idle Feature (Park/Neutral)	N	Raise idle speed to reduce fuel consumption and engine off time during Park/Neutral state

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
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ELECTRONICS – PCM²

FUEL

Fuel Injector	Signal from PCM	Fuel Flow	N/A	Port injection: 139 +/- 4.45 g/min Direct injection: 697.8 g/min
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 "ol_lam_pwr_a_m" if accelerator pedal is greater than "FN311P" (90%) for "ol_tm_pwr_dly_a_m" seconds. Otherwise, open loop target, "OL_LAM_DES" is 1.00 (stoich). * and the entry conditions in function "FN311P".
Open Loop Delay Timers	Time and Gear	Delay open loop fuel	Allows time for downshift; limit enrichment to unusual conditions	See Section 16.00.05.00 for delay time calibration "FN1311P" and the maximum open-loop count-up time, "ol_tm_pwr_dly_a_m"

Open Loop Enrichment Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either "CAT_MAX" or "CAT_MAX_LO" and "CAT_MAX_HI" and the time delay on CAT_MAX_LO," "CAT_TMR_THRES"
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Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
Open Loop Enrichment EGO Protection	Inferred Oxygen Sensor Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred EGO temperature to trigger enrichment, "FEGO_MAX"
Open Loop Enrichment Engine/Exhaust Manifold Protection	Inferred Exhaust Manifold Flange Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred exhaust flange temperature, "FLN_MAX" or "FLN_MAX_LO" and "FLN_MAX_HI" and the time delay on FLN_MAX_LO," "FLN_TMR_THRES"
Open Loop Enrichment Following Deceleration Fuel Shut-Off (DFSO)	Injector state, inferred catalyst O ₂ stored, and CMS voltage	Air-Fuel Ratio (LAMBSE)	Substantially demonstrated on FTP	See Section 16.00.05.00 for air-fuel ratio utilized following fuel shut-off event, "LAM_REACT"
<u>CRANKCASE</u> 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
<u>VCT Control Strategy</u>				
Cam timing based on requested torque and percent torque	Requested Torque, Percent Torque, Engine Speed, and Load	Cam Phase Timing	VCT optimized for fuel efficiency within constraints of combustion stability, driveability, emissions, and vacuum limitations	See Section 16.00.05.00 for "hdcfg_ix_fe_v" Best FE mapped points in combination with "FNHDFX_BEST_FE_DIST" (eng_spd, load) and "FNHDFX_BEST_DRIVE_DIST" (eng_spd, pct_load) distances.
Cam Timing Limitation for Combustion Stability	Requested Torque and Engine Speed	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"
Cam Actuator Limitation for Oil Temperature	Oil Temperature; or Time-since-start and ECT-at-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "FNHDFX_FNEOT_ADV_INT" and "FNHDFX_FNEOT_EXH"
Cam Actuator Limitation for start-up	Engine Coolant Temp. at start and time-since-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "fnvct_enable_delay" and "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"
Cam Retard Limitation under Hi Torque Demand n	Engine Speed and Requested Torque	Cam Phase Timing or Throttle Position	Protection against damage or accident under high torque demand	See Section 16.00.05.00 for Contained within the Best FE, Best Drv noted above and the Optimal Performance "FN_HDFX_OP_IVO" and "FN_HDFX_OP_EVC" calibrations.
Cam Actuator Limitation for ACT Effects	Air Charge Temperature	Cam Phase Timing	Protection against damage or accident by maintaining combustion stability	See Section 16.00.05.00 for "FNHDFX_VCTLIM_EXH"

Test Group: TFMXT02.36HG
 Issued: 9/17/2025
 Revised:

12.00.02.00

ENGINE COOLING

Thermostat

Coolant
Temperature

Coolant Flow

Engine Protection

Start to Open: 92 °C +1.8 °C / -2 °C

-
- 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: TFMXT02.36HG

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
RANGER 2WD, RANGER 4WD	Initial	TTRDN3NA0002	TTRDN3NA06	PTB3A-12A650-NB	09/10/2025

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

Engine Family: TFMXT02.36HG

2026MY2.3L RANGER

<u>Part Name</u>	<u>Part Number</u>	
Ambient Air Temperature Sensor	AU5T-12A647-AC	
Cam Cover & Gskt Assembly	P2GE-6K271-AE	
Camshaft Position Sensor Assembly	P2GA-12K073-BA P2GA-12K073-BB	(alt)
Catalyst	RB3G-5E211-CC RB3G-5E211-DA	(alt)
Crank Position Sensor	P2GA-6C315-AC	
Cylinder Head Temp Sensor	P2GA-6G004-AB P2GA-6G004-AC	
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	
Fuel Injector (DI)	P2GE-9G929-BA	
Fuel Injector (PFI)	P2GE-9F593-AA	
Fuel Pressure Sensor (High Pressure)	P2GE-9F972-AA	
Fuel Pressure Sensor (Low Pressure)	P2GE-9F972-BA P2GE-9F972-BB	(alt)
Fuel Pump High Pressure	P2GE-9D376-AA	
Heated Air/Fuel Sensor (WR-HO2S)	RB3G-9Y460-CA SB3G-9Y460-AA	(alt)
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 Pressure Regulator	7L14-9C379-BA	
Fuel Pump Low Pressure	ML34-9350-AA	
Mass Air Flow Sensor	JX6A-12B579-EB	
Charge Air Cooler	MB3G-6D624-AA	

2026 TEST VEHICLE REQUIREMENTS

	Evaporative Emission Vehicle	Evaporative Emission Vehicle	Exhaust Emission Vehicle
Test Group	NFMXT02.31EM	MFMXT02.31EM	SFMXT02.36HG
Evap Emission Family	NFMXR0140NDG	MFMXR0140NDG	SFMXR0140NDG
Displacement	2.3L	2.3L	2.3L
Engine Code	MTG1N3NB00	MTG1N3NB00	STRDN3NA92
Fuel Tank Capacity	22.2 Gal	22.2 Gal	20.2 Gal
Exhaust Control System	TWC/DFI/WR-HO2S/ HO2S/EGR/EGRC/TC/ CAC	TWC/DFI/WR-HO2S/ HO2S/EGR/EGRC/TC/ CAC	TWC/SFI/DFI/WR- HO2S/HO2S/EGR/EGRC/ TC/CAC
Model	Bronco	Bronco	RANGER 4WD
Transmission	Semi-Auto-10	Semi-Auto-10	Auto-10
Equivalent Test Weight	5500.0	5500.0	4750.0
Curb Weight	5136.0	5136.0	4481.0
GWR	6120.0	6120.0	6170.0
THP/DPA	26 / f0=44.07, f1=0.6921, f2=0.04663	27.5 / f0=51.84, f1=0.6755, f2=0.04816	17.1 / f0=36.46, f1=0.1423, f2=0.03379
Axle Ratio	4.7	4.7	3.73
N/V Ratio - RPM/MPH	30.2	30.2	26.5
Tires	LT315/70R17	LT315/70R17	LT255/70R17
Vehicle ID No	301W321	MG11-2.3-J-203	SRD1-2.3-J-054
Configuration Number	0	0	0
Model Year	2022	2021	2025

Vehicle Description Report

Test Group: TFMXT02.36HG

ID Number	5292993	5292992
Displacement	2.3	2.3
Cert Code	TTRDN3NA0002	TTRDN3NA0002
Fuel Tank(s)	RP	RP
Carline	RANGER 2WD	RANGER 4WD
Wheel Configuration	Standard	Standard
Body Style	Crew Cab	Crew Cab
Wheelbase	128.7	128.7
Transcode Combo	ETA	ETA
Curb Weight	4290	4484
ETW	4500	4750
Loaded Weight LVW	4590	4784
ALVW-ETW	5250	5500
Adj. Loaded Weight	5170	5377
GVWR	6050	6270
GCWR	12370	12590
Min Axle Ratio	3.73	3.73
Max Axle Ratio	3.73	3.73
Min N/V Ratio	26.5	26.5
Max N/V Ratio	26.5	26.5
Emission Vehicle Class	LDT3	LDT3
Drive Code	2-Wheel Drive, Rear	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST
Min Tire Size	255/65R18 - 26.5	255/65R18 - 26.5
Max Tire Size	LT255/70R17 - 26.5	LT255/70R17 - 26.5
Alt Tire 1	255/70R17 - 26.5	255/70R17 - 26.5
Alt Tire 2		
Alt Tire 3		
Alt Tire 4		
Alt Tire 5		
Alt Tire 6		
Alt Tire 7		
DAW Full Tank	1925	1942
DAW Empty Tank	1829	1846



SECTION 14

Request for Certification

14.00.00.00



**Emissions Certification, Homologation & Compliance
Environmental & Safety Compliance**

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

September 26, 2025

Ms. Hannah Frame
Certification Division
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 states test group TFMXT02.36HG and evaporative emission family TFMXR0140NDG. The test fuel used is Federal Tier 3 (E10) Fuel.

The EPA Tier 3 certification exhaust emission standards and In-Use 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	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Certification and In-Use Evaporative Standards	150K	TFMXR0140NDG	0.500 g/test	0.500 g/test	0.05 g/mi	0.20 g/gal	0.02 grams

The 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 Avi Friedman (afriedm4@ford.com, 313-590-3505) 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



**Emissions Certification, Homologation & Compliance
Environmental & Safety Compliance**

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

September 26, 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 light-duty trucks (LDTs) contained in Ford's 50 states test group TFMXT02.36HG and evaporative emission family TFMXR0140NDG. 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 test fuel used is Federal Tier 3 (E10) Fuel.

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 III	Useful Life	Evaporative Family	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Certification and In-Use Evaporative Standards	150K	TFMXR0140NDG	0.500 g/test	0.500 g/test	0.05 g/mi	0.20 g/gal	0.02 grams

The 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.

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 Avi Friedman (afriedm4@ford.com, 313-590-3505) 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



CCAPS Manual Payment Request
(North America)

REF NO: 306178

NAME AND ADDRESS OF PAYEE Environmental Protection Agency-MVECP U.S. Bank - Government Lockbox 979032 1300 Pennsylvania Ave NW - Washington, DC 20004-3002 The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically by ACH.	Employee	Ex-Employee / Board of Director	Mail Attachments	Separate Check	Special Handling
				Y	
	Supplier Code	CCAPS Plant Code	Due Date	Currency	Amount
	GXHSA	10	ASAP	US	230,573.00

REASON FOR DISBURSEMENT

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

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

 2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)

LOC CODE	GEN. LED.	SUB. ACCT.	SUB. DIV.	DEPT	PROD. CODE	BALANCE REFERENCE	MISC. REFERENCE	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
5100	25A	00217		5100S910		F102A	EPA	306178	3/26/2025	230,573.00	N
TOTAL										230,573.00	

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

TYPE OF INVOICE: MANUAL PAYMENT REQUEST CATEGORY (use drop down with Alt+down arrow key): Legal Matters- Environmental Fees

<p style="text-align: center;">Requestor</p> <p>CDS ID: TOLIVER Sign: <i>[Signature]</i> Date: 3/26/25</p>	<p style="text-align: center;">Operations Approval - Receipt of Service</p> <p>CDS ID: LMERRIT2 Sign: <i>[Signature]</i> Date: 3/26/2025</p>
---	---

<p style="text-align: center;">Approvals per Corporate Approval Authorities - Method of Payment</p> <p><u>Payment Item is on Uses of Manual Payment Requests</u></p> <p>CDS ID: PBLANCAS Sign: <i>[Signature]</i> Date: 3/26/25</p> <p>DocuSigned by: <i>Patricia Blancas Ruiz</i> 98D37B2D5DA0498...</p>	<p><u>Payment Item is not on Uses of Manual Payment Requests</u></p> <p>CDS ID: [Blank] Sign: [Blank] Date: [Blank]</p>
--	---

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

The space below may be used for additional local requirements

306178

EPA_MVECP_v1

US EPA Fee Form

Tracking Information

Pay.gov Tracking ID: 27MMLLRP

Agency Tracking ID: 76997675180

[Help and EPA Instructions](#)

* Required Field

AFRIEDM4

General Information

Date: 03/24/2025

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 *

3133238938

Calendar Year complete application submitted to EPA *

2025

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

Engine Family / Evaporative Family / Test Group *

TFMXT02.36HG

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

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 LDT3

OBD:CA OBD II Fuel: Gasoline

California: SULEV30 LDT

OBD:CA OBD II Fuel: Gasoline

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

No adjustments needed.

2.3L-Group: TFMXT02.36HG Evap: TFMXR0140NDG

▽ TW7E-9C485- **L H M**





SECTION 18

Revisions

18.00.00.00

APPLICATION REVISIONS

TFMXT02.36HG

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

Part 2