

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
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CARB Customer Number	CCAM000031

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	26_CBI_TFMXT03.57AT_APP	Model Year 2026	TFMXT03.57AT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
2	26_CBI_TFMXT03.51F1_APP	Model Year 2026	TFMXT03.51F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
3	26_CBI_TFMXT02.72V6_APP	Model Year 2026	TFMXT02.72V6	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
4	OPCARRYOVER_26_CBI_TF	Model Year 2026	TFMXT02.31EM	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 24,224.00
5	26_CBI_TFMXT03.03V7_APP	Model Year 2026	TFMXT03.03V7	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
6	26_CBI_TFMXT02.71HS_APP	Model Year 2026	TFMXT02.71HS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
7	OPCARRYOVER_26_CBI_TF	Model Year 2026	TFMXT02.36HG	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 24,224.00

Total Due	\$ 290,683.00
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I,  _____

_, 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: TFMXT02.72V6
Durability Group: TFMXGPGNND1A
Evap. Families: TFMXR0140NDF / TFMXR0140NDG

Test Group Description: 2.7 Liter V6
 Federal LDT2/LDT3/LDT4 / California LDT

Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled,
 Turbocharged, Port Fuel Injection, Direct Injection, Catalyst Code D

Applicable Standards: Federal Exhaust - Tier 3 Bin 50
 California Exhaust – LEV-III ULEV50
 Federal Evap - Tier 3
 California Evap – LEV-III
 CH4 - 0.030 g/mi
 California Particulate Matter – 0.003 g/mi
 Federal Cold NMHC - 0.3 g/mi
 Federal Particulate Matter - 0.003 g/mi
 N2O - 0.010 g/mi
 SFTP - 0.080 g/mi NMOG+NOx

Carlines Covered: Ford Bronco 4WD
 Ford Bronco Outer Banks 4WD

Vehicles Tested:

Exhaust Emissions Vehicle: MG11-2.7-J-201 Config 0		Evaporative Emissions Vehicle: MG11-2.3-J-203 Config 0 301W321 (BETP Only) Config 0	
FTP TN (E10):	MFMX91004680	2Day TN:	MFMX10067811
HWY TN (E10):	MFMX91004682	3Day TN:	MFMX10068292
US06 TN (E10):	MFMX91004685	RL TN:	MFMX10067818
SC03 TN (E10):	MFMX10067798	BETP TN:	NFMX10071316
Cold CO TN (E10):	MFMX10067792	ORVR TN:	MFMX10067812
		Linking Test:	MFMX10067778

Release Date: February 23, 2026

For Questions, Contact:

John Romig (jromig4@ford.com, 313-439-3159)

00.00.00.00



Part 1 Application Index

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- § 03.00.00.00 Evaporative/ Refueling Family Description**
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Part 2 Application Index (Running change updates)



SECTION 2

Durability Group Description

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



SECTION 3

Evaporative/Refueling Family Description

03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Family Name: TFMXR0140NDF (LDT2)
 Evaporative Family Name: TFMXR0140NDG (LDT3/LDT4)

2026 MY 2.7L GTPFDI Bronco

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Capless Refueling Component Insert MU5A-9D000-AC	None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	
Vapor Hose with ORVR Recirculation Orifice MB3G-9C015-PD (SWB) MB3G-9C015-RE (LWB)	None	Vapor Recirculation	Operates in ORVR	Recirc. Orifice Diameter: 2.5 mm
Combo Fuel Limiting Vent Valve & Grade Vent Valve MB3G-9B190-AB (SWB)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	FLVV Orifice Diameter: 10.2 mm GVV Orifice Diameter: 2.54 mm
Fuel Limiting Vent Valve 9L14-9B190-EA (LWB)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	FLVV Main Orifice Diameter: 9.14 mm FLVV Bypass: 1.25 mm
Grade Vent Valve MB3G-9B593-PB (One per tank on SWB; two per tank on LWB)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	Main Orifice: 4.0 mm Bleed: 1.0 mm
Fuel Tank Pressure Sensor 9U5A-9C052-BC	Fuel Tank Pressure	None	Operates in FTP	
Carbon Canister MB3G-9D653-AC	None	Fuel Vapor	Operates in EVAP and/or ORVR	140g BWC 2.3L Total Volume (includes 0.065L Bleed Element)
Canister Purge Valve EU5A-9G866-CE	Signal from PCM	Vacuum to canister	Operates in FTP	100 SLPM
AIS Hydrocarbon Trap GN15-9T303-AA	None	Fuel Vapor	Operates in EVAP	

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



SECTION 4

Durability Procedure Description

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



SECTION 5

Test Group Description

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



SECTION 6

Test Vehicle Description

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



SECTION 7

EPA Certification Summary Information Report

(Test Results)

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Certificate Number	TFMXT02.72V6-059	CARB Executive Order #	--
Certificate Issue Date	10/23/2025	Certificate Revision Date	--
Certificate Effective Date	10/23/2025	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	09/23/2025 03:26:05 PM
Model Year	2026		

Test Group Information			
CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		
Drive Sources and Fuel(s)			
Drive Source #1:	Combustion Engine		
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Gasoline	Spark Ignition direct & ported injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT2, LDT4, LDT3
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	TFMXGPGNND1A	Durability Group Equivalency Factor	2.6
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	02/23/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TFMXT01.52X1
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	EPA City Litmus Value: 14.6, City Litmus Threshold: 14.2, EPA Hwy Litmus Value: 14.7, Hwy Litmus Threshold: 15.8		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	Update for Correction	Submission/Correction Date	09/16/2025 09:06:40 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Other	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	AIS Hydrocarbon Trap				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	See EVAP Family Comments				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	140	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	1				
Mfr Evaporative/Refueling Family Comments	1 X 2.2L HA 3-port Rect. + 1 X 0.065L Bleed						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
TFMXR0140NDF-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	24 - BRONCO 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	--				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--				
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	V-6				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	5W-30 / ILSAC GF-7				
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N				

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
3	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
4	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				--
Direct Ozone Reduction (DOR) Device				Not Equipped
Mfr Emission Control Device Comments				--
Engine Configuration Number 1				
Engine Displacement (liters)	2.7	Engine Rated Horsepower	315	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2	
Air Aspiration Device Configuration	Parallel	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	dual intake & exhaust			
Variable Valve Lift?	No			
Variable Valve Lift System Description	--			
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4	
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--	
Air/Fuel Sensor # 3 Type	Heated air fuel	Air/Fuel Sensor # 3 Description	--	
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No	
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--	
Closed Loop Air Injection System	No			
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	2.7L TiVCT GTPFDI			

Certification Summary Information Report

Test Group		TFMXT02.72V6				Evaporative/Refueling Family			TFMXR0140NDF		
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	MFMX91004680	MFMX91004685	MFMX10067798	MFMX10067792	MFMX91004682	74.3	228.2	999.9	286.1	1	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP		US06			SC03					
Gasoline	MFMX91004680		MFMX91004685			MFMX10067798					

Certification Summary Information Report

Test Group	TFMXT02.72V6		Evaporative/Refueling Family	TFMXR0140NDF							
Emission Data Vehicle Information											
Vehicle ID / Configuration	301W321 / 0		Manufacturer Vehicle Configuration Number	0							
Original Test Group Name	NFMXT02.31EM		Original Evaporative/Refueling Family	NFMXR0140NDG							
Original Test Vehicle Model Year	2022										
Vehicle Model											
Represented Test Vehicle Make	Ford		Represented Test Vehicle Model	Bronco							
Leak Family Details											
Leak Family Identifier	001		Leak Family Name	NFMXR0140NDG-001							
Drive Sources and Fuel System Details											
<table border="1"> <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 Combustion	--							
Multiple Fuel Storage	--		Rechargeable Energy Storage System Indicator	--							
Fuel Cell Indicator	--		Rechargeable Energy Storage System, if 'Other'	--							
Rechargeable Energy Storage System	--										
Off-board charge Capable Indicator	--		Odometer Correction Factor	1.03							
Odometer Correction -- Initial	0										
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, if 'Other'								
Air Aspiration Method	Turbocharged		Air Aspiration Device Configuration	Single							
Number of Air Aspiration Devices	1		Drive Mode While Testing	2-Wheel Drive, Rear							
Charge Air Cooler Type	Air		Aged Emission Components	4,000 (mi)							
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	5500							
Curb Weight (lbs)	5136		N/V Ratio	30.2							
GVWR (lbs)	6120										
Axle Ratio	4.7		# of Transmission Gears	10							
Transmission Type	Semi-Automatic		Creeper Gear	No							
Transmission Lockup	Yes										
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	44.07	0.6921	0.04663	20.96	0.5259	0.04582	26				
Emission Control Device Comments	22MY BETP										

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Manufacturer Test Vehicle Comments	2.3L GTDI Bronco 4X4		
Test #	NFMX10071316	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	02/15/2021	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	5155	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL (Total Hydrocarbon)	0.0151	--

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

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL	0.0151	0	0.015	0.02	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0151	0	0.015	0.02	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6		Evaporative/Refueling Family			TFMXR0140NDF	
Dynamometer Coefficients:							
	Target Coefficients			Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
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	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Test #	MFMX10067778	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/22/2020	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	54
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4795	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	486.46295	--
FE BAG 1 (Bag 1 Fuel Economy)	17.78016	17.78016
CO2 BAG 2 (Bag 2 Carbon Dioxide)	453.93757	--
FE BAG 2 (Bag 2 Fuel Economy)	19.11774	19.11774
CO2 BAG 3 (Bag 3 Carbon Dioxide)	452.73368	--
FE BAG 3 (Bag 3 Fuel Economy)	19.13135	19.13135
METHANE (CH4 - Methane)	0.00838	--
CO (Carbon Monoxide)	0.5004	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.917377	--
DT-EER (Drive Trace Energy Economy Rating)	0.0376276	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.0471	--
MFR FE (Manufacturer Fuel Economy)	18.84256	18.84256
NOX (Nitrogen Oxide)	0.01162	--
N2O (Nitrous Oxide)	0.0008	--
HC-NM (Non-methane Hydrocarbon)	0.0101973	--
NMOG (Non-methane organic gases)	0.0112	--
PM (Particulate Matter)	0.0011645	--
HC-TOTAL (Total Hydrocarbon)	0.01809	--

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	461	999
Optional Carbon-Related Exhaust Emissions	461	999

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

Manufacturer Test Comments NMOG = 1.04 * NMHCr

Test #	MFMX10067811	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	10/09/2020	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4969	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.3375	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3375	--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.3375	0	0.338	0.4	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3375	0	0.338	0.4	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Test #	MFMX10068292	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	MFMX10067778	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	11/16/2020	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	5126	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.3726	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3726	--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.3726	0	0.373	0.4	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3726	0	0.373	0.4	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
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	0.1	0.2	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.098	0.002	0.1	0.2	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	51.28	0.5031	0.0501	24	0.5027	0.04728	26.9
Cold CO	51.28	0.5031	0.0501	24	0.5027	0.04728	N/A
US06	51.28	0.5031	0.0501	24	0.5027	0.04728	N/A

Emission Control Device Comments T21-0099-01 T3B50 L3B50
Manufacturer Test Vehicle Comments 2.7L GTPFDI Bronco 4X4

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Test #	MFMX10067792	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	09/24/2020	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	33
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4879	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	650.9077	--
FE BAG 1 (Bag 1 Fuel Economy)	13.11094	13.11094
CO2 BAG 2 (Bag 2 Carbon Dioxide)	486.0816	--
FE BAG 2 (Bag 2 Fuel Economy)	17.75396	17.75396
CO2 BAG 3 (Bag 3 Carbon Dioxide)	476.2112	--
FE BAG 3 (Bag 3 Fuel Economy)	18.11609	18.11609
METHANE (CH4 - Methane)	0.0172	--
CO (Carbon Monoxide)	0.81727	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.43759	--
DT-EER (Drive Trace Energy Economy Rating)	0.210294	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.375852	--
MFR FE (Manufacturer Fuel Economy)	16.63961	16.63961
NOX (Nitrogen Oxide)	0.00893	--
HC-NM (Non-methane Hydrocarbon)	0.108165	--
NMOG (Non-methane organic gases)	0.11866	--
HC-TOTAL (Total Hydrocarbon)	0.12411	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	517.41913	--

Manufacturer Test Comments 5-Cycle E10 Cold CO NMOG = 1.04 * NMHCr

Certification Summary Information Report

Test Group		TFMXT02.72V6				Evaporative/Refueling Family				TFMXR0140NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 50	CO	0.82	--	--	--	0.06	--	0.9	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.11	--	--	--	0.0108	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-III ULEV50	CO	0.82	--	--	--	0.06	--	0.9	12.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Test #	MFMX91004680	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	12/18/2020	Fuel	Gasoline
Fuel Batch ID	27723	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5152	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)	527.1002197	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	453.1049194	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	466.2805176	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0041239	--
CO (Carbon Monoxide)	0.251152	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.3131413	--
DT-EER (Drive Trace Energy Economy Rating)	0.2646652	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.7031385	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0062833	--
N2O (Nitrous Oxide)	0.0007345	--
HC-NM (Non-methane Hydrocarbon)	0.0086451	--
NMOG (Non-methane organic gases)	0.0094906	--
PM (Particulate Matter)	0.0012122	--
HC-TOTAL (Total Hydrocarbon)	0.01264	--

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

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	472.098114	--

Manufacturer Test Comments None Unrounded Result for the following test results were modified by Verify: FE BAG 2, FE BAG 1, FE BAG 3, 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 50	CO	0.25	--	--	--	0.18	--	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.5	--	--	--	--	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0.3	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0041	--	--	--	0.0051	--	0.009	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0007	--	--	--	0.0006	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0095	--	1.1	--	0.015	--	0.024	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0158	--	--	--	--	--	0.032	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0384	--	--	--	--	--	0.038	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0063	--	--	--	0.001	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0012	--	--	--	0.0002	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.25	--	--	--	0.18	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.45	--	--	--	--	--	0.4	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0095	--	1.1	--	0.015	--	0.024	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0158	--	--	--	--	--	0.032	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0339	--	--	--	--	--	0.034	0.080	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0063	--	--	--	0.001	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0012	--	--	--	0.0002	--	0.001	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	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Test #	MFMX91004682	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	12/23/2020	Fuel	Gasoline
Fuel Batch ID	27723	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5172	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)	0.0045682	--
CO (Carbon Monoxide)	0.1022642	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.611395	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2585675	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2652758	--
MFR FE (Manufacturer Fuel Economy)	22.6747646	--
NOX (Nitrogen Oxide)	0.0102437	--
N2O (Nitrous Oxide)	0.0010171	--
HC-NM (Non-methane Hydrocarbon)	0.0114572	--
NMOG (Non-methane organic gases)	0.0118009	--
HC-TOTAL (Total Hydrocarbon)	0.0158824	--

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	381.7675781	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		TFMXT02.72V6				Evaporative/Refueling Family				TFMXR0140NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0.3	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0118	--	1.03	--	0.015	--	0.027	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.022	--	--	--	--	--	0.038	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0102	--	--	--	0.001	--	0.011	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0118	--	1.03	--	0.015	--	0.027	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.022	--	--	--	--	--	0.038	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0102	--	--	--	0.001	--	0.011	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	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Test #	MFMX91004685	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	12/23/2020	Fuel	Gasoline
Fuel Batch ID	27723	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5196	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)	792.6970215	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	558.7532349	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0099095	--
CO (Carbon Monoxide)	0.319495	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.5317868	--
DT-EER (Drive Trace Energy Economy Rating)	-0.334939	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.5504174	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0259963	--
N2O (Nitrous Oxide)	0.0015428	--
HC-NM (Non-methane Hydrocarbon)	0.0230186	--
NMOG (Non-methane organic gases)	0.0237092	--
PM (Particulate Matter)	0.0055091	--
HC-TOTAL (Total Hydrocarbon)	0.032618	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	610.6680298	--

Manufacturer Test Comments

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

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0055	--	--	--	0.0002	--	0.006	0.006	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0055	--	--	--	0.0002	--	0.006	0.006	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF																																	
Test #	MFMX10067798	Test Procedure	95 - SC03																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																	
Test Date	09/22/2020	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	--																																			
Test Start Odometer Reading	4864	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	No																																	
Test Results																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Test Result Name</th> <th style="width: 30%;">Unrounded Test Result</th> <th style="width: 35%;">Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>CO (Carbon Monoxide)</td> <td style="text-align: center;">0.37889</td> <td style="text-align: center;">--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td style="text-align: center;">1.2369</td> <td style="text-align: center;">--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td style="text-align: center;">0.412699</td> <td style="text-align: center;">--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td style="text-align: center;">1.82175</td> <td style="text-align: center;">--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td style="text-align: center;">15.29855</td> <td style="text-align: center;">15.29855</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td style="text-align: center;">0.00797</td> <td style="text-align: center;">--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">--</td> </tr> <tr> <td>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</td> <td style="text-align: center;">0.00797</td> <td style="text-align: center;">--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO (Carbon Monoxide)	0.37889	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.2369	--	DT-EER (Drive Trace Energy Economy Rating)	0.412699	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.82175	--	MFR FE (Manufacturer Fuel Economy)	15.29855	15.29855	NOX (Nitrogen Oxide)	0.00797	--	HC-NM (Non-methane Hydrocarbon)	0	--	NMOG (Non-methane organic gases)	0	--	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.00797	--	HC-TOTAL (Total Hydrocarbon)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																		
CO (Carbon Monoxide)	0.37889	--																																		
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HC-NM (Non-methane Hydrocarbon)	0	--																																		
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HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.00797	--																																		
HC-TOTAL (Total Hydrocarbon)	0	--																																		
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																		
Carbon dioxide	566.92956	--																																		
Manufacturer Test Comments	5-Cycle E10 SC03 Measured NMOG																																			

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	54
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/31/2020
Fuel Batch Calibration Effective Date	08/31/2020	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17958
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	27723	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/09/2019
Fuel Batch Calibration Effective Date	05/09/2019	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	0.747
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17954
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	375-B	Fuel Calibration Number	33
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	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	0.743
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17996
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	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
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Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	Standard Level	Federal Tier 3 Bin 50
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	--	--	--	--	--	--	0.3	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.015	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0.6	999.999

Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Both
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	Standard Level	California LEV-III ULEV50
Fuel	Gasoline	Test Procedure	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006

Certification Summary Information Report

Test Group		TFMXT02.72V6			Evaporative/Refueling Family			TFMXR0140NDF		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
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	--	--	--	--	--	--	0.18	1.7	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	CREE	--	--	--	--	--	--	0.3	999.999	
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004	
150,000 miles	METHANE	--	--	--	--	--	--	0.0051	0.030	
150,000 miles	N2O	--	--	--	--	--	--	0.0006	0.010	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.015	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.080	
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999	
150,000 miles	OPT-CREE	--	--	--	--	--	--	0.6	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III ULEV50		
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	--	--	--	--	--	--	0.18	1.7	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.015	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.080	
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003	

Certification Summary Information Report

Test Group		TFMXT02.72V6			Evaporative/Refueling Family			TFMXR0140NDF		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III ULEV50		
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	--	--	--	0.015	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III ULEV50		
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	--	--	--	--	--	--	0.06	12.5	
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
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	--	--	--	--	--	--	0.0002	0.006	
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
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	--	--	--	--	--	--	0.06	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0108	0.3	
Evaporative/Refueling Standards										

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF		
Evaporative/Refueling Family	TFMXR0140NDF	Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Both	Standard Level	California LEV-III Zero Evap (Option 2)		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.400	0
Evaporative/Refueling Family	TFMXR0140NDF	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0
Evaporative/Refueling Family	TFMXR0140NDF	Cert Region	California + CAA Section 177 states		
Cert/In-Use Code	Both	Standard Level	California LEV-III Zero Evap (Option 2)		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.400	0
Evaporative/Refueling Family	TFMXR0140NDF	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.002
Evaporative/Refueling Family	TFMXR0140NDF	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0

Certification Summary Information Report

Test Group	TFMXT02.72V6		Evaporative/Refueling Family	TFMXR0140NDF	
Evaporative/Refueling Family	TFMXR0140NDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal Fuel Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.05	0
Evaporative/Refueling Family	TFMXR0140NDF		Cert Region	Federal	
Cert/In-Use Code	Both		Standard Level	Federal Tier 3 Evap	
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0
Evaporative/Refueling Family	TFMXR0140NDF		Cert Region	Federal	
Cert/In-Use Code	Both		Standard Level	Federal Tier 3 Evap	
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0
Evaporative/Refueling Family	TFMXR0140NDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal fuel 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	TFMXR0140NDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDF
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		
Certification Region			

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family		TFMXR0140NDF
CA	California + CAA Section 177 states	FA	Federal	
Exhaust Emission Standard Level				
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160	
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125	
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110	
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85	
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70	
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50	
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30	
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20	
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0	
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100	
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125	
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15	
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150	
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170	
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175	
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20	
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200	
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230	
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25	
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30	
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75	
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85	
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125	

Certification Summary Information Report

Test Group		TFMXT02.72V6	Evaporative/Refueling Family		TFMXR0140NDF
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer		
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery		
DF	Deterioration Factor	SIL	Shift Indicator Light		
Evap	Evaporation, Evaporative	Trans	Transmission		

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
Certificate Number	TFMXT02.72V6-060	CARB Executive Order #	--
Certificate Issue Date	10/23/2025	Certificate Revision Date	--
Certificate Effective Date	10/23/2025	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	09/23/2025 03:26:05 PM
Model Year	2026		

Test Group Information			
CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		
Drive Sources and Fuel(s)			
Drive Source #1:	Combustion Engine		
	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Gasoline	Spark Ignition direct & ported injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT2, LDT4, LDT3
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	TFMXGPGNND1A	Durability Group Equivalency Factor	2.6
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	02/23/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TFMXT01.52X1
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	EPA City Litmus Value: 14.6, City Litmus Threshold: 14.2, EPA Hwy Litmus Value: 14.7, Hwy Litmus Threshold: 15.8		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
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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	30 - BRONCO OUTER BANKS 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	30 - BRONCO OUTER BANKS 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	24 - BRONCO 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes

Engine Description

Hybrid Type	--	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	V-6
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	5W-30 / ILSAC GF-7
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
3	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
4	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				--
Direct Ozone Reduction (DOR) Device				Not Equipped
Mfr Emission Control Device Comments				--
Engine Configuration Number 1				
Engine Displacement (liters)	2.7	Engine Rated Horsepower	315	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2	
Air Aspiration Device Configuration	Parallel	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	dual intake & exhaust			
Variable Valve Lift?	No			
Variable Valve Lift System Description	--			
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4	
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--	
Air/Fuel Sensor # 3 Type	Heated air fuel	Air/Fuel Sensor # 3 Description	--	
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No	
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--	
Closed Loop Air Injection System	No			
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	2.7L TiVCT GTPFDI			

Certification Summary Information Report

Test Group		TFMXT02.72V6				Evaporative/Refueling Family			TFMXR0140NDG		
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	MFMX91004680	MFMX91004685	MFMX10067798	MFMX10067792	MFMX91004682	74.3	228.2	999.9	286.1	1	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP		US06			SC03					
Gasoline	MFMX91004680		MFMX91004685			MFMX10067798					

Certification Summary Information Report

Test Group	TFMXT02.72V6	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	TFMXT02.72V6	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	0.02	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0151	0	0.015	0.02	Pass

Certification Summary Information Report

Test Group		TFMXT02.72V6			Evaporative/Refueling Family			TFMXR0140NDG
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	51.84	0.6755	0.04816	25.85	0.548	0.0465	27.5	
Cold CO	51.84	0.6755	0.04816	25.85	0.548	0.0465	N/A	
US06	51.84	0.6755	0.04816	25.85	0.548	0.0465	N/A	
Emission Control Device Comments	T21-0129-01 T3B70 L3B70							
Manufacturer Test Vehicle Comments	2.3L GTDI Bronco 4X4							

Certification Summary Information Report

Test Group	TFMXT02.72V6	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	TFMXT02.72V6	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	0.338	0.5	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3375	0	0.338	0.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	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	0.373	0.5	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3726	0	0.373	0.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	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	0.1	0.2	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.098	0.002	0.1	0.2	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
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Emission Data Vehicle Information

Vehicle ID / Configuration	MG11-2.7-J-201 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	MFMXT02.72V6	Original Evaporative/Refueling Family	MFMXR0140NDG
Original Test Vehicle Model Year	2021		
Vehicle Model			
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Bronco

Leak Family Details

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

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

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	MTG1WQNA00	Rated Horsepower	315
Displacement (liters)	2.7	Air Aspiration Method, if 'Other'	
Air Aspiration Method	Turbocharged	Air Aspiration Device Configuration	Parallel
Number of Air Aspiration Devices	2	Drive Mode While Testing	2-Wheel Drive, Rear
Charge Air Cooler Type	Air	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	5500
Curb Weight (lbs)	5288	N/V Ratio	30.2
GVWR (lbs)	6180		
Axle Ratio	4.7	# of Transmission Gears	10
Transmission Type	Semi-Automatic	Creeper Gear	No
Transmission Lockup	Yes		

Certification Summary Information Report

Test Group		TFMXT02.72V6			Evaporative/Refueling Family			TFMXR0140NDG
Dynamometer Coefficients:								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	51.28	0.5031	0.0501	24	0.5027	0.04728	26.9	
Cold CO	51.28	0.5031	0.0501	24	0.5027	0.04728	N/A	
US06	51.28	0.5031	0.0501	24	0.5027	0.04728	N/A	
Emission Control Device Comments	T21-0099-01 T3B50 L3B50							
Manufacturer Test Vehicle Comments	2.7L GTPFDI Bronco 4X4							

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
Test #	MFMX10067792	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	09/24/2020	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	33
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4879	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	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	650.9077	--
FE BAG 1 (Bag 1 Fuel Economy)	13.11094	13.11094
CO2 BAG 2 (Bag 2 Carbon Dioxide)	486.0816	--
FE BAG 2 (Bag 2 Fuel Economy)	17.75396	17.75396
CO2 BAG 3 (Bag 3 Carbon Dioxide)	476.2112	--
FE BAG 3 (Bag 3 Fuel Economy)	18.11609	18.11609
METHANE (CH4 - Methane)	0.0172	--
CO (Carbon Monoxide)	0.81727	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.43759	--
DT-EER (Drive Trace Energy Economy Rating)	0.210294	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.375852	--
MFR FE (Manufacturer Fuel Economy)	16.63961	16.63961
NOX (Nitrogen Oxide)	0.00893	--
HC-NM (Non-methane Hydrocarbon)	0.108165	--
NMOG (Non-methane organic gases)	0.11866	--
HC-TOTAL (Total Hydrocarbon)	0.12411	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	517.41913	--

Manufacturer Test Comments 5-Cycle E10 Cold CO NMOG = 1.04 * NMHCr

Certification Summary Information Report

Test Group	TFMXT02.72V6	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 50	CO	0.82	--	--	--	0.06	--	0.9	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.11	--	--	--	0.0108	--	0.1	0.3	Pass
CA	50,000 miles	California LEV-III ULEV50	CO	0.82	--	--	--	0.06	--	0.9	12.5	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
Test #	MFMX91004680	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	12/18/2020	Fuel	Gasoline
Fuel Batch ID	27723	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5152	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)	527.1002197	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	453.1049194	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	466.2805176	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0041239	--
CO (Carbon Monoxide)	0.251152	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.3131413	--
DT-EER (Drive Trace Energy Economy Rating)	0.2646652	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.7031385	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0062833	--
N2O (Nitrous Oxide)	0.0007345	--
HC-NM (Non-methane Hydrocarbon)	0.0086451	--
NMOG (Non-methane organic gases)	0.0094906	--
PM (Particulate Matter)	0.0012122	--
HC-TOTAL (Total Hydrocarbon)	0.01264	--

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

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	472.098114	--

Manufacturer Test Comments None Unrounded Result for the following test results were modified by Verify: FE BAG 2, FE BAG 1, FE BAG 3, 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 50	CO	0.25	--	--	--	0.18	--	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.5	--	--	--	--	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0.3	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0041	--	--	--	0.0051	--	0.009	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0007	--	--	--	0.0006	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0095	--	1.1	--	0.015	--	0.024	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0158	--	--	--	--	--	0.032	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0384	--	--	--	--	--	0.038	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0063	--	--	--	0.001	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0012	--	--	--	0.0002	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.25	--	--	--	0.18	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.45	--	--	--	--	--	0.4	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0095	--	1.1	--	0.015	--	0.024	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0158	--	--	--	--	--	0.032	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0339	--	--	--	--	--	0.034	0.080	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0063	--	--	--	0.001	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0012	--	--	--	0.0002	--	0.001	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	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
Test #	MFMX91004682	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	12/23/2020	Fuel	Gasoline
Fuel Batch ID	27723	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5172	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)	0.0045682	--
CO (Carbon Monoxide)	0.1022642	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.611395	--
DT-EER (Drive Trace Energy Economy Rating)	-0.2585675	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2652758	--
MFR FE (Manufacturer Fuel Economy)	22.6747646	--
NOX (Nitrogen Oxide)	0.0102437	--
N2O (Nitrous Oxide)	0.0010171	--
HC-NM (Non-methane Hydrocarbon)	0.0114572	--
NMOG (Non-methane organic gases)	0.0118009	--
HC-TOTAL (Total Hydrocarbon)	0.0158824	--

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	381.7675781	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group		TFMXT02.72V6				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 50	CREE	999	--	--	--	0.3	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0118	--	1.03	--	0.015	--	0.027	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.022	--	--	--	--	--	0.038	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0102	--	--	--	0.001	--	0.011	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0118	--	1.03	--	0.015	--	0.027	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.022	--	--	--	--	--	0.038	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0102	--	--	--	0.001	--	0.011	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	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
Test #	MFMX91004685	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	12/23/2020	Fuel	Gasoline
Fuel Batch ID	27723	Fuel Calibration Number	1
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5196	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)	792.6970215	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	558.7532349	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0099095	--
CO (Carbon Monoxide)	0.319495	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.5317868	--
DT-EER (Drive Trace Energy Economy Rating)	-0.334939	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.5504174	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0259963	--
N2O (Nitrous Oxide)	0.0015428	--
HC-NM (Non-methane Hydrocarbon)	0.0230186	--
NMOG (Non-methane organic gases)	0.0237092	--
PM (Particulate Matter)	0.0055091	--
HC-TOTAL (Total Hydrocarbon)	0.032618	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	610.6680298	--

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

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0055	--	--	--	0.0002	--	0.006	0.006	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0055	--	--	--	0.0002	--	0.006	0.006	Pass

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG																																	
Test #	MFMX10067798	Test Procedure	95 - SC03																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																	
Test Date	09/22/2020	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	--																																			
Test Start Odometer Reading	4864	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	No																																	
Test Results																																				
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>CO (Carbon Monoxide)</td> <td>0.37889</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>1.2369</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>0.412699</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>1.82175</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>15.29855</td> <td>15.29855</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.00797</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0</td> <td>--</td> </tr> <tr> <td>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</td> <td>0.00797</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO (Carbon Monoxide)	0.37889	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.2369	--	DT-EER (Drive Trace Energy Economy Rating)	0.412699	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.82175	--	MFR FE (Manufacturer Fuel Economy)	15.29855	15.29855	NOX (Nitrogen Oxide)	0.00797	--	HC-NM (Non-methane Hydrocarbon)	0	--	NMOG (Non-methane organic gases)	0	--	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.00797	--	HC-TOTAL (Total Hydrocarbon)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																		
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NMOG (Non-methane organic gases)	0	--																																		
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.00797	--																																		
HC-TOTAL (Total Hydrocarbon)	0	--																																		
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>566.92956</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	566.92956	--																											
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																		
Carbon dioxide	566.92956	--																																		
Manufacturer Test Comments	5-Cycle E10 SC03 Measured NMOG																																			

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	54
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/31/2020
Fuel Batch Calibration Effective Date	08/31/2020	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17958
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	375-B	Fuel Calibration Number	33
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	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	0.743
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17996
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	27723	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/09/2019
Fuel Batch Calibration Effective Date	05/09/2019	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	0.747
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17954
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	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG
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Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	Standard Level	Federal Tier 3 Bin 50
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	--	--	--	--	--	--	0.3	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.015	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0.6	999.999

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	Standard Level	Federal Tier 3 Bin 50
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	--	--	--	--	--	--	0.18	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.3	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0051	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0006	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.015	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0.6	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003

Certification Summary Information Report

Test Group		TFMXT02.72V6			Evaporative/Refueling Family			TFMXR0140NDG		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
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	--	--	--	--	--	--	0.06	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0108	0.3	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III ULEV50		
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	--	--	--	0.015	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III ULEV50		
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	--	--	--	--	--	--	0.18	1.7	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.015	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.080	
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003	

Certification Summary Information Report

Test Group		TFMXT02.72V6			Evaporative/Refueling Family			TFMXR0140NDG		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III ULEV50		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	--	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999	
150,000 miles	NOX	--	--	--	--	--	--	--	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006	

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III ULEV50		
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	--	--	--	--	--	--	0.06	12.5	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 50		
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	--	--	--	--	--	--	0.0002	0.006	

Evaporative/Refueling Standards

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					

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG		
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 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.500	0
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
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	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.500	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 Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.05	0
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

Certification Summary Information Report

Test Group	TFMXT02.72V6	Evaporative/Refueling Family	TFMXR0140NDG		
Evaporative/Refueling Family	TFMXR0140NDG	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0
Evaporative/Refueling Family	TFMXR0140NDG	Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0
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
Evaporative/Refueling Family	TFMXR0140NDG	Cert Region	Federal		
Cert/In-Use Code	Both	Standard Level	Federal Tier 3 Evap		
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0

Certification Summary Information Report

Test Group	TFMXT02.72V6	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	TFMXT02.72V6	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		TFMXT02.72V6	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 and Statements of Compliance

Statement of Compliance for test group TFMXT02.72V6

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

Common Family Parameters – Test Group: TFMXT02.72V6

Vehicle Program: Bronco 2.7L

<u>Test Group Information</u>	
Vehicle/Engine Class	LDT2/LDT3/LDT4
Vehicle Fuel Category	<i>Single Fuel</i>
Operating Fuel 1	<i>Gas</i>
Engine Displacement (liters)	2.7L
SAE net HP @ RPM (91 Ron)	315 @ 5500
SAE net torque ft-lb @ RPM	410 @ 3250

<u>Emission Control System:</u>	
Air Aspiration Method*	<i>Turbocharged (TC)</i>
Charge Air Cooler Type* (TG-51)	<i>Air</i>
Exhaust Gas Recirculation (EGR)*	No
Cooled EGR *	No
Air injection Type (AIR)*	NA=Not applicable
After-Treatment Type *	TWC
Fuel Metering System *	Gasoline Direct (GDI)
	Sequential Fuel (SFI)
Heated oxygen sensor (HO ₂ S)*	YES
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO ₂ S)*	YES
Feedback Sensor Configuration	WR-HO ₂ S, HO ₂ S

Shift Schedules	See Common Section
EVAP Canister working Capacity	See Common Section
EVAP Canister Bed Volume	See Common Section
Fuel Tank Temperature Profile	See Common Section

* VECI label item

Exhaust Calibration	Evaporative Family	Application	Transmission	Leak Check	Vehicle
TTG1WQNC05 / 06	TFMXR0140NDF	50ST	10R80 Auto	0.020	2.7L Bronco 2-Door
TTG1WQNA05 / 06	TFMXR0140NDG	50ST	10R80 Auto	0.020	2.7L Bronco 4-Door

Reference Specifications		
Spark Plug	Type: CYFS-092YPT Gap: 0.8 +0/-0.1 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: 580/580 rpm	Special conditions which may require idle speeds higher than base are listed below. (See Section 16.05 for descriptions of these strategies):

Potential Idle/Drive Speed Modifier	Function Utilized (Y/N)	Purpose
A/C Operation	Y	Compressor performance
Low or high air charge temperature	Y	Heater, A/C or engine cooling performance
Low catalyst temperature	Y	Achieve/maintain light off
Low engine coolant temperature	Y	Combustion stability
Low or high ambient temperature	Y	Heater or A/C performance
High transmission oil temperature	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
Power steering position	N	Ensure adequate P/S assistance
High Altitude	Y	Maintain air mass flow to avoid stalling
Alternate calibration	Y	Avoid spark plug fouling during plant/dealer handling
Heated Windshield	N	Maintain charging margin
ETC Failure	N	Electronic Throttle Failure Min RPM
A/C Adder (50RPM)	N	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
<u>ELECTRONICS – PCM²</u>				
<u>FUEL</u>				
Fuel Injector	Signal from PCM	Fuel Flow	N/A	Static Flow Rate: 20.0 +/-0 .64 cc/sec
Regulated Fuel Pressure	Signal from PCM	Fuel Pressure	N/A	N/A CLPC
Fuel Pump	Signal from PCM	Fuel Flow	N/A	Nom. Flow Rate: 260 L/H @500kpa-12V
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	Throttle Diameter: 61.6 mm
<u>Fuel System Control Strategy²</u>				
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
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 and the maximum open-loop count-up time

Sensed	Controlled
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1 – Justification provided for AECD systems (i.e. sense operating conditions and control the function of an emission component) and not for the individual components.
 2 – See Section 16.05 for Strategy Control Systems descriptions
 3 – "FTP" represents all tests required for certification
 * – indicates that ending characters on some parameter names may vary

Emission Component	Parameter	Parameter	Justification ¹	Calibration
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
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
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
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

CRANKCASE

PCV Valve	Manifold Vacuum	Air Flow to Engine	Operates in FTP	EV#:290 2.55 - 3.75 SCFM @ 3" Hg 2.00 - 3.20 SCFM @ 8" Hg 0.90 - 2.10 SCFM @ 8" Hg 0.85 - 1.65 SCFM @ 15" Hg 0.50 - 1.30 SCFM @ 15" Hg
EGR Valve	Signal from PCM	Exhaust Gas	Operated in FTP	25 +/- 0.75 SCFM @ 0.64mm open 135 +/- 4.05 SCFM @ 5.1mm open
EGR Orifice	EGR Gases	EGR Gases	Operated in FTP	Orifice Dia: 5.7mm
EGR Control Strategy BASE EGR Table	Engine Speed and Load	Requested EGR Flow	EGR optimized for fuel efficiency within constraints of combustion stability, driveability, component temps, emissions, and vacuum limitations	See Section 16.00.05.00 for HDFX_EGR_MAXTOL_STP_
Engine Icing Prevention	Air Charge Temp	EGR Flow	Protection against damage or accident	See Section 16.00.05.00 for EGR_ACT_MIN
Hot Intake Air Limitation	Air Charge Temp	EGR Flow	Engine protection	See Section 16.00.05.00 for EGR_ACT_MAX

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
VCT Control Strategy				
Cam timing based on requested torque and percent torque	Requested Torque, Percent Torque, Engine Speed, and Load	Cam Phase Timing	VCT optimized for fuel efficiency within constraints of combustion stability, drivability, emissions, and vacuum limitations	See Section 16.00.05.00
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
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
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
Cam Retard Limitation under Hi Torque Demand	Engine Speed and Requested Torque	Cam Phase Timing or Throttle Position	Protection against damage or accident under high torque demand	See Section 16.00.05.00

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

2 – See Section 16.05 for Strategy Control Systems descriptions

3 – "FTP" represents all tests required for certification

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

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
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Emission Component	Sensed Parameter	Controlled Parameter	Justification¹	Calibration
ENGINE COOLING				
Thermostat	Coolant Temperature	Coolant Flow	Engine Protection	Start to Open: 87.5° C

1 – Justification provided for AECD systems (i.e. sense operating conditions and control the function of an emission component) and not for the individual components.
2 – See Section 16.05 for Strategy Control Systems descriptions
3 – "FTP" represents all tests required for certification
* – indicates that ending characters on some parameter names may vary

2026 MY Exhaust Emissions Parts List
Test Group: TFMXT02.72V6

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
BRONCO 4WD, BRONCO OUTER BANKS 4WD	Initial	TTG1WQNA0000	TTG1WQNA05	PTB3A-12A650-ACA	06/05/2025
BRONCO 4WD	Initial	TTG1WQNC0000	TTG1WQNC05	PTB3A-12A650-ZA	06/05/2025
BRONCO 4WD, BRONCO OUTER BANKS 4WD	RC01	TTG1WQNA0001	TTG1WQNA06	PTB3A-12A650-ACB	10/23/2025
BRONCO 4WD	RC01	TTG1WQNC0001	TTG1WQNC06	PTB3A-12A650-ZB	10/23/2025

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

Engine Family: TFMXT02.72V6

2026MY2.7L BRONCO

<u>Part Name</u>	<u>Part Number</u>	
Camshaft Position Sensor Assembly	RL3A-12K073-AB	
Catalyst (RH)	MB3G-5E212-JG	
Catalyst (LH)	MB3G-5E214-JH	
Crank Position Sensor	SL3A-6C315-AA	
	FT4A-6C315-BB	(alt)
Cylinder Head Temp Sensor	P2GA-6G004-AC	
Electronic Throttle Body	JT4E-9F991-AA	
Engine Coolant Temperature Sensor	JL3A-12A648-BA	
Fuel Injector (DI)	N2DE-9G929-AA	
Fuel Injector (PFI)	JT4E-9F593-BA	
Fuel Pressure Sensor (High Pressure)	KT4E-9F972-AA	
Fuel Pump High Pressure	NL3E-9D376-AA	
Heated Air/Fuel Sensor (WR-HO2S)	MB3G-9Y460-BB	
	SB3G-9Y460-AA	(alt)
Heated Oxygen Sensor (CMS)	MB3G-9G444-BC	(alt)
	MB3G-9G444-CB	
	RB3G-9G444-BA	(alt)
Integrated Fuel Pressure Sensor (Low Pressure)	HX7G-9G756-AC	
Knock Sensor	FT4A-12A699-BH	
Manifold Absolute Pressure Sensor	RL3A-9F479-AB	
PCV Valve	KR3E-6A666-BA	
Turbo Charger (LH)	MB3E-6C879-AF	
Turbo Charger (RH)	MB3E-6K682-AF	
VCT Solenoid	FT4E-6B297-BB	
	FT4E-6B297-CA	(alt)
Fuel Pump Low Pressure	ML34-9350-AA	
Intake Air Temperature Sensor (IAT)	DS7A-12A697-AA	
Charge Air Cooler	MB3G-6D624-AA	

2026MY TEST VEHICLE REQUIREMENTS

	Durability Data Vehicle	CAP2000 Exhaust Data Vehicle	Evaporative Data Vehicle
Test Group	MFMXT02.72V6	MFMXT02.72V6	MFMXT02.31EM
Evap. Emission Family	MFMXR0140NDG	MFMXR0140NDG	MFMXR0140NDG
Displacement Liters	2.7L	2.7L	2.3L
Engine Code	MTG1WQNA00	MTG1WQNA00	MTG1N3NB00
Fuel Tank Code	22.2 Gal	22.2 Gal	22.2 Gal
Exhaust Control System	TWC, HO2S, WR-HO2S, TC, CAC, DFI, SFI, EGR, EGRC	TWC, HO2S, WR-HO2S, TC, CAC, DFI, SFI, EGR, EGRC	TWC, HO2S, WR-HO2S, TC, CAC, DFI, EGR, EGRC
Model	Bronco	Bronco	Bronco
Equivalent Test Weight	5500	5500	5500
THP/DPA	f0 = 51.28	f0 = 51.28	f0 = 51.84
	f1 = 0.5031	f1 = 0.5031	f1 = 0.6755
	f2 = 0.0501	f2 = 0.0501	f2 = 0.04816
Axle Ratio	4.7	4.7	4.7
N/V Ratio - RPM/MPH	31.7	31.7	30.2
Tires	LT315/70R17 MT	LT315/70R17 MT	LT315/70R17 MT
Vehicle ID No	MG11-2.7-204	MG11-2.7-J-201	MG11-2.3-J-203
Configuration Number	0	0	0
Model Year	2021	2021	2021

Test Group: TFMXT02.72V6
 Issued: 9/23/2025
 Revised:

Vehicle Description Report

Test Group: TFMXT02.72V6

ID Number	5290220	5290231	5290224	5290230	5290234	5290221
Displacement	2.7	2.7	2.7	2.7	2.7	2.7
Cert Code	TTG1WQNA0000	TTG1WQNA0000	TTG1WQNA0000	TTG1WQNA0000	TTG1WQNC0000	TTG1WQNA0000
Fuel Tank(s)	B2	B2	B2	B2	B1	B2
Carline	BRONCO 4WD	BRONCO OUTER BANKS 4WD				
Wheel Configuration	Standard	Standard	Standard	Standard	Standard	Standard
Body Style	4 Door	4 Door	4 Door	4 Door	2 Door	4 Door
Wheelbase	116.0	116.0	116.0	116.0	100.0	116.0
Transcode Combo	ETD	ETD	ETD	ETD	ETD	ETD
Curb Weight	5023	5030	5239	5336	4923	4795
ETW	5250	5250	5500	5500	5250	5000
Loaded Weight LVW	5323	5330	5539	5636	5223	5095
ALVW-ETW	5500	5500	5500	6000	5500	5500
Adj. Loaded Weight	5561	5595	5745	5808	5411	5427
GVWR	6100	6160	6250	6280	5900	6060
GCWR	9120	9120	9120	9120	9120	8740
Min Axle Ratio	4.7	4.7	4.46	4.7	4.7	3.73
Max Axle Ratio	4.7	4.7	4.7	4.7	4.7	3.73
Min N/V Ratio	30.2	30.2	30.1	30.2	30.2	25.7
Max N/V Ratio	30.2	30.2	30.2	30.2	30.2	26.1
Emission Vehicle Class	LDT3	LDT3	LDT3	LDT4	LDT2	LDT3
Drive Code	Part-time 4-Wheel Drive					
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	FED	FED	FED	FED	FED	FED
Min Tire Size	LT315/70R17 - 30.2	LT315/70R17 - 30.2	LT285/70R17 - 30.1	LT315/70R17 - 30.2	LT315/70R17 - 30.2	255/70R18 - 25.7
Max Tire Size	LT315/70R17 - 30.2	LT265/70R17 - 26.1				
Alt Tire 1						
Alt Tire 2						
Alt Tire 3						
Alt Tire 4						
Alt Tire 5						
Alt Tire 6						
Alt Tire 7						
DAW Full Tank	2221	2215	2280	2338	2188	2095
DAW Empty Tank	2135	2130	2195	2252	2116	2010



SECTION 14

Request for Certification

14.00.00.00



**Emissions Certification,
Homologation, & Compliance**

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

September 23, 2025

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

Dear Ms. Frame:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year gasoline powered light-duty trucks (LDTs) contained in Ford's 50 states test group TFMXT02.72V6 and evaporative emission families TFMXR0140NDF and TFMXR0140NDG. Tier 3 E10 regular fuel was used for exhaust and evaporative emission testing.

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

Certification & In-Use FTP Standards (g/mi)	Useful Life	NMOG + NOx	CO	N2O	HCHO	CH4	PM
Tier 3 Bin 50	150K	0.050	1.7	0.010	0.004	0.030	0.003

In addition, this test group also meets the Cold NMHC Family Emission Limit (FEL) of 0.3 gm/mi as part of compliance plan to meet corporate fleet average Cold NMHC standards. This test group also meets the SFTP NMOG+NOx Family Emission Limit (FEL) of 0.080 g/mi and CO composite limit of 4.2 g/mi as part of compliance plan to meet corporate fleet average SFTP standards.

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

Tier 3	Useful Life	Evaporative Family (Vehicle Type)	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Certification and In-Use Evaporative Standards	150K	TFMXR0140NDF	0.400 g/test	0.400 g/test	0.05 g/mile	0.20 g/gallon	0.020 grams
		TFMXR0140NDG	0.500 g/test	0.500 g/test			

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 LDT test group listed in this Application for Certification.

Please contact John Romig (jromig4@ford.com, (313) 439-3159), if you have any questions regarding this submission.

Sincerely,

DocuSigned by:

Lawrence H. Merritt, Jr.

DF6ED4749EAC46B...

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



**Vehicle Homologation and Compliance
Environmental & Safety Compliance**

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

September 23, 2025

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

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year gasoline-powered light-duty trucks (LDTs) contained in Ford's 50 states test group TFMXT02.72V6 and evaporative emission family TFMXR0140NDF and 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 ULEV 50	150K	0.050	1.7	0.003	0.004

This test group meets the SFTP NMOG+NOx Composite Family Emission Limit (FEL) of 0.080 g/mi and CO FEL of 4.2 g/mi. In addition, this test group meets the Cold CO standard of 12.5 g/mi.

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

LEV 3	Useful Life	Evaporative Family (Vehicle Type)	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Certification and In-Use Evaporative Standards	150K	TFMXR0140NDF	0.400 g/test	0.400 g/test	0.05 g/mile	0.20 g/gallon	0.020 grams
		TFMXR0140NDG	0.500 g/test	0.500 g/test			

The spitback standard is 1.0 gram per test for this test group.

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

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.

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 John Romig (jromig4@ford.com, (313) 439-3159), if you have any questions regarding this submission.

Sincerely,

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

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

cc: R. Uyehara, M. Desai



SECTION 15

Other Information

15.00.00.00



SAP Manual Payment Request
(North America)

REF NO: 306180

NAME AND ADDRESS OF PAYEE Environmental Protection Agency-MVECP U.S. Bank - Government Lockbox 979032 1300 Pennsylvania Ave NW - Washington DC 20004-3002 The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically/ACH.	Employee	Ex-Employee / Board of Director	Company Code	Separate Check	Special Handling/ Instruction Key in S4
			Supplier Code	Due Date / Baseline Date	Amount
			GXHSA	ASAP	USD

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

Alternate Name & Address
COMMENTS (Shown on Remittance Advice/Not to include PII)

2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)

GL Account	Profit Center	Cost Center	Internal Order	Reference Key1	Reference Key2	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
63044030	2000005001	1000017919				306180	7/7/2025	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
 - Uses of Manual Payment Requests
 - Corporate Approval Authorities - Method of Payment

TYPE OF INVOICE: MANUAL PAYMENT REQUEST -PERMISSIBLE USES (use drop down with Alt+down arrow key):
Uses of Manual Payment Requests
Not in Uses of Manual Payment Request

Requestor CDS ID: _____ Date: 7/7/2025 Preparer/Requestor: <i>[Signature]</i> TOLLNER		Operations Approval - Receipt of Service CDS ID: LMERRIT2 Signed by: <i>[Signature]</i> Date: 7/7/2025 Operations Approval: <i>[Signature]</i>	
--	--	---	--

Approval by Corporate Approval Authorities - Method of Payment Payment Item is on Uses of Manual Payment Requests CDS ID: PBLANCAS Sign: <i>[Signature]</i> Date: 7/7/2025		Payment Item is NOT on Uses of Manual Payment Requests CDS ID: _____ Sign: _____ Date: _____	
---	--	---	--

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

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 06/17/2025

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

FMX

Manufacturer Name *

Ford Motor Company

Contact Name *

Tina Oliver

Contact Email Address *

toliver@ford.com

Contact Phone *

3133238938

Calendar Year complete application submitted to EPA *

2025

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

...ication application is received, not the model

year.

Engine Family / Evaporative Family / Test Group *

TFMXT02.72V6

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)

[Redacted]

ICI VIN Number (Required for ICIs Only)

[Redacted]

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

\$32,939.00

Payment Type *

Offline ACH

Comments

John Romig 2.7L Bronco 4WD

Pay.gov Tracking ID: 27P07CEB

Agency Tracking ID: 77074797078

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: T3B50 LDT2

OBD:CA OBD II Fuel: Gasoline

California: ULEV50 LDT

OBD:CA OBD II Fuel: Gasoline

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

No adjustments needed.

2.7L-Group: TFMXT02.72V6 Evap: TFMXR0140NDF

▽ TW7E-9C485-**L V Y**



FoMoCo

Ford Motor Company
VEHICLE EMISSION CONTROL INFORMATION

Conforms to regulations: 2026 MY

U.S. EPA: T3B50 LDT3/LDT4

OBD:CA OBD II Fuel: Gasoline

California: ULEV50 LDT

OBD:CA OBD II Fuel: Gasoline

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

No adjustments needed.

2.7L-Group: TFMXT02.72V6 Evap: TFMXR0140NDG

▽ TW7E-9C485-**LLH**





SECTION 18

Revisions

18.00.00.00

APPLICATION REVISIONS

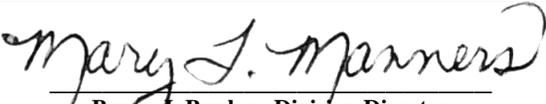
TFMXT02.72V6

<u>NO.</u>	<u>DATE</u>	<u>PAGE(S)</u>	<u>DESCRIPTION</u>
1	12/18/2025	12.00.02.00 12.00.03.00 12.00.06.00 16.00.05.00 18.00.00.00	2V6-001: This running change introduces the R06 calibration and R0001 certification codes into production. Reference Whitepaper: 03.14.01-15453



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

**OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105**

Certificate Issued To: Ford Motor Company (U.S. Manufacturer or Importer) Certificate Number: TFMXT02.72V6-059	<u>Effective Date:</u> 10/23/2025 <u>Expiration Date:</u> 12/31/2026	 <hr/> Byron J. Bunker, Division Director Compliance Division	<u>Issue Date:</u> 10/23/2025 <u>Revision Date:</u> N/A
--	---	--	--

Test Group Name: TFMXT02.72V6 Evaporative/Refueling Family Name: TFMXR0140NDF Applicable Exhaust Emission Standards: Federal Tier 3 Bin 50 Applicable Evaporative/Refueling Standards: Federal Tier 3 Evap	Engine Displacement: 2.7 Liters Exhaust Emission Test Fuel Type: Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) Full Useful Life Miles: Exhaust Emissions: 150,000 miles Full Useful Life Miles: Evaporative/Refueling Emissions: 150,000 miles
Models Covered: Ford: BRONCO 4WD	

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

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

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

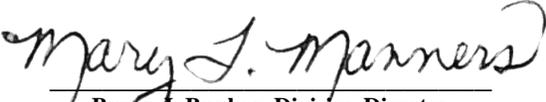
Catalyst-equipped vehicles designed to be operated on gasoline or flexible fuel are equipped with an emission control device which the Administrator has determined will be significantly impaired by the use of leaded fuel. This certificate is issued subject to the conditions specified in 40 CFR 80.24.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

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



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

**OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105**

Certificate Issued To: Ford Motor Company (U.S. Manufacturer or Importer) Certificate Number: TFMXT02.72V6-060	<u>Effective Date:</u> 10/23/2025 <u>Expiration Date:</u> 12/31/2026	 <hr/> Byron J. Bunker, Division Director Compliance Division	<u>Issue Date:</u> 10/23/2025 <u>Revision Date:</u> N/A
--	---	--	--

Test Group Name: TFMXT02.72V6 Evaporative/Refueling Family Name: TFMXR0140NDG Applicable Exhaust Emission Standards: Federal Tier 3 Bin 50 Applicable Evaporative/Refueling Standards: Federal Tier 3 Evap	Engine Displacement: 2.7 Liters Exhaust Emission Test Fuel Type: Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) Full Useful Life Miles: Exhaust Emissions: 150,000 miles Full Useful Life Miles: Evaporative/Refueling Emissions: 150,000 miles
Models Covered: Ford: BRONCO 4WD, BRONCO OUTER BANKS 4WD	

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

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

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

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

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



FORD MOTOR COMPANY

Executive Order: A-010-2659
 New Passenger Cars, Light-Duty Trucks and
 Medium-Duty Vehicles
 Page 1 of 4

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

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

TEST GROUP INFORMATION						
MODEL YEAR	TEST GROUP	VEHICLE CLASS(ES)		FUEL CATEGORY	FUEL TYPE	
2026	TFMXT02.72V6	LDT2, LDT3, LDT4		DEDICATED SINGLE FUEL VEHICLE	GASOLINE	
USEFUL LIFE (miles)		VEHICLE EMISSION CATEGORY			INTERIM / INTERMEDIATE IN-USE STD	
EXH/ORVR	EVAP	FTP	SFTP	FTP	SFTP	
150000	150000	LEV3 ULEV50	LEV3 COMPOSITE	*	*	
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS			OBD STATUS		ENGINE DISPLACEMENT (L)	
1	TWC, HO2S, WR-HO2S, CA, TC, DFI, SFI		FULL	*	2.7	
*	*		PARTIAL	ALL MODELS		
*	*					
EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION						
EVAP / ORVR FAMILY		EVAPORATIVE STD CATEGORY		EVAP EMISSION STD VEHICLE CLASS		SPECIAL FEATURES
TFMXR0140NDF		LEV 3 OPTION2 WITH FEL		LDT2		HCT
TFMXR0140NDG		LEV 3 OPTION2 WITH FEL		LDT3		HCT
EMISSION CREDIT INFORMATION						
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY		NMOG CREDIT FOR NON-PZEV ZERO-EVAP		NMOG CREDIT FOR DOR		OPTIONAL EXH. STD FOR WORK TRUCKS
N		N		N		N
NMOG AND FLEET AVERAGE INFORMATION						
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	HCHO/NMHC RATIO	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)	NMOG+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)	NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi)
*	*	1.10	*	0.030	0.030	*

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



FORD MOTOR
COMPANY

Executive Order: A-010-2659
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
Page 2 of 4

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

BE IT FURTHER RESOLVED: The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c)(3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV are to be equalized as required.

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

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

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

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

Executed on this 23rd day of December 2025.

Robin U. Lang, Chief
Emissions Certification and Compliance Division

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

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

	FUEL TYPE	CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP									
		NMOG+NOx (g/mi)		CO (g/mi)		NOx (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP@50K	*	*	*	*	*	*	*	*	*	*	*
FTP@UL	GASOLINE-TIER3 E10	0.032	0.050	0.4	1.7	*	*	0	4	0.001	0.003
50°F @4K	*	*	*	*	*	*	*	*	*		

	FUEL TYPE	NMOG+NOx (g/mi)		CO (g/mi)	
		CERT	STD	CERT	STD
HWFET @ 50K	*	*	*		
HWFET @ UL	GASOLINE-TIER3 E10	0.038	0.050		
20°F @ 50K	COLD CO E10 REGULAR GASOLINE (TIER3)			0.9	12.5

SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

	FUEL TYPE		US06			SC03		COMPOSITE		
			NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)	NMOG+NOx (g/mi)	CO (g/mi)	NMOG+NOx (g/mi)	CO (g/mi)	PM (mg/mi)
@ 4K	*	CERT	*	*		*	*			
		STD	*	*		*	*			
@ UL	GASOLINE-TIER3 E10	CERT	*	*	6	*	*	0.038	0.5	*
		STD	*	*	6	*	*	0.050	4.2	*
		BIN						0.080		

WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

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



FORD MOTOR COMPANY

Executive Order: A-010-2659
 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles
 Page 4 of 4

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

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

EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)

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

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: medium-duty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia; NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer; DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; cGPF (coated gasoline particulate filter); HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; HP/LP EGR: High/Low Pressure EGR; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; F/P: full/partial on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%" gasoline) fuel; E10: "10%" ethanol ("90%" gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi-automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits, S = credits for some/select models

2026 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD
FORD	BRONCO 4WD	LDT2	2.7	SA10	TFMXR0140NDF	1	P
FORD	BRONCO 4WD	LDT3	2.7	SA10	TFMXR0140NDG	1	P
FORD	BRONCO 4WD	LDT4	2.7	SA10	TFMXR0140NDG	1	P
FORD	BRONCO OUTER BANKS 4WD	LDT3	2.7	SA10	TFMXR0140NDG	1	P