

Application for Certification

Part 1



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

2026 Model Year

Test Group: TFMXT01.52X2
Durability Group: TFMXGPGNNE1E
Evap. Families: TFMXR0125GDF
Test Group Description: I3
Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled, Turbocharged, Catalyst Code E
Applicable Standards: Federal Exhaust - Tier 3 Bin 30
 Federal Evap - Tier 3
 CH₄ - 0.030 g/mi
 Federal Cold NMHC - 0.3 g/mi
 Federal Particulate Matter - 0.003 g/mi
 N₂O - 0.010 g/mi
 SFTP - 0.070 g/mi NMOG+NO_x
Carlines Covered: BRONCO SPORT 4WD
 BRONCO SPORT SASQUATCH

Vehicles Tested

Exhaust Emission Vehicle:		Evaporative Emission Vehicle:	
SHD1-1.5-J-989/Config 1		SHD1-1.5-J-989/Config 1 (TFMXR0125GDF)	
FTP (E10) TN	SFMX91006030	2Day TN	SFMX10087244
HWY (E10) TN	SFMX91005998	3Day TN	SFMX10087231
US06 (E10) TN	SFMX91005997	Linking TN	SFMX10087229
SC03 (E10) TN	SFMX10087241	ORVR	SFMX10087246
SHD1-1.5-J-989/Config 0		RL TN	SFMX10087245
Cold CO (E10) TN	SFMX10087230	313W540/Config 0 (TFMXR0125GDF)	
		BETP	LFMX10058649

Release Date: February 16, 2026

For Questions, Contact:

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Part 1 Application Index

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Part 2 Application Index **(Running change updates)**



SECTION 2

Durability Group Description

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



SECTION 3

Evaporative/Refueling Family Description

03.00.00.00

03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Family Name: TFMXR0125GDF

2026MY 1.5L GTPFDI Bronco Sport

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Capless Refueling Component Insert LU5A-9D000-CC	None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	
Vapor Hose with ORVR Recirculation Orifice LX61-9D333-ND	None	Vapor Recirculation	Operates in ORVR	Orifice Diameter: 3.0 mm
Fuel Limiting Vent Valve (FLVV) LX61-9B190-AA	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	FLVV Orifice: 10.23 mm
Grade Vent Valve LX61-9B593-RA	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	GVV Orifice: 2.00 mm Bleed Notch: 0.5 mm
Fuel Tank Pressure Sensor 9U5A-9C052-BC	Fuel Tank Pressure	None	Operates in FTP	
Carbon Canister HU5A-9D653-FD	None	Fuel Vapor	Operates in EVAP and/or ORVR	125g BWC 2.2L Total Volume
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	



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	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	09/24/2025 10:25:55 AM
Model Year	2026		

Test Group Information

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

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	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
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	TFMXGPGNNE1E	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TFMXT02.02Y5
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	FE Litmus (mpg): City=21.7/Threshold=21.1, Hwy=26.1/Threshold=27.2		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	Update for Correction	Submission/Correction Date	09/17/2025 12:08:48 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Other	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	Carbon HC trap in air induction system				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	1 X 2.1L 3-port Rect.				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	125	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	1				
Mfr Evaporative/Refueling Family Comments	Bronco Sport 1.5L GTPFDI, Escape 1.5L GTPFDI, Escape 2.0L GTPFDI, Bronco Sport 2.0L GTPFDI, Corsair 2.0L GTPFDI, Maverick 2.0L GTPFDI, Maverick Tremor 2.0L GTPFDI, Maverick Lobo 2.0L GTPFDI						
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				
TFMXR0125GDF-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	32 - BRONCO SPORT SASQUATCH	Federal	4-Wheel Drive	Automatic	8	Yes
Ford Motor Company	1 - Ford	25 - BRONCO SPORT 4WD	Federal	Part-time 4-Wheel Drive	Automatic	8	Yes
Engine Description							
Hybrid Type	--	Hybrid Description	Four Stroke, Otto Cycle, Gasoline Fueled, Turbocharged, Direct Injection, Sequential Fuel Injection, Catalyst Code E				
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description					
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	13				
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-20 / ILSAC GF-7				
Number of Cylinders/Rotors	3	Mechanically Variable Compression Ratio Indicator	N				

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF								
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal	Substrate Material								
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic								
2	Three-way catalyst	Palladium + Rhodium	Ceramic								
Mfr After Treatment Device (ATD) Comments											
		TWC									
Direct Ozone Reduction (DOR) Device											
		Not Equipped									
Mfr Emission Control Device Comments											
Engine Configuration Number 1											
Engine Displacement (liters)	1.5	Engine Rated Horsepower	181								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1								
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Air								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	Intake/Exhaust, Hydraulic Actuated VCT										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	1	Number of Air/Fuel Sensors	2								
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	HO2S								
Air/Fuel Sensor # 2 Type	Other	Air/Fuel Sensor # 2 Description	WR-HO2S								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes								
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	--										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	SFMX91006030	SFMX91005997	SFMX10087241	SFMX10087230	SFMX91005998	104.5	228.2	999.9	286.1	1.0	

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Gasoline	SFMX91006030	SFMX91005997	SFMX10087241

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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Emission Data Vehicle Information

Vehicle ID / Configuration	313W540 / 0	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	LFMXT01.52X1	Original Evaporative/Refueling Family	TFMXR0125GDF
Original Test Vehicle Model Year	2020		

Vehicle Model

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

Leak Family Identifier	001	Leak Family Name	TFMXR0125GDF-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 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	LCTCY1NB06	Rated Horsepower	180
Displacement (liters)	1.5	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, Front
Charge Air Cooler Type	Air	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	3750
Curb Weight (lbs)	3464	N/V Ratio	28.6
GVWR (lbs)	4760		
Axle Ratio	3.81	# of Transmission Gears	8
Transmission Type	Semi-Automatic	Creeper Gear	No
Transmission Lockup	Yes		

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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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	30.78	-0.0241	0.02591	13.81	-0.3184	0.02722	12.6
Cold CO	30.78	-0.0241	0.02591	13.81	-0.3184	0.02722	N/A
US06	31.4	0.1163	0.02944	13.41	0.01323	0.02907	N/A

Emission Control Device Comments T3B30/SULEV30, Cold Bin 3, PM3, SFTP 0.070
Manufacturer Test Vehicle Comments Ford Escape

Test #	LFMX10058649	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	03/15/2019	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	9999	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)	0.0038	--

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	0.0038	0	0.004	0.020	Pass

Certification Summary Information Report

Test Group		TFMXT01.52X2			Evaporative/Refueling Family			TFMXR0125GDF
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	30.44	0.1837	0.02749	7.14	0.0886	0.02622	14.4	
Cold CO	30.44	0.1837	0.02749	7.14	0.0886	0.02622	N/A	
US06	30.44	0.1837	0.02749	7.14	0.0886	0.02622	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	BRONCO SPORT SASQUATCH							

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
Test #	SFMX10087230	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	05/24/2024	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	52
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	6779	Odometer Units	K
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)	427.626199	--
FE BAG 1 (Bag 1 Fuel Economy)	19.471646	19.471646
CO2 BAG 2 (Bag 2 Carbon Dioxide)	353.771641	--
FE BAG 2 (Bag 2 Fuel Economy)	24.521099	24.521099
CO2 BAG 3 (Bag 3 Carbon Dioxide)	311.215407	--
FE BAG 3 (Bag 3 Fuel Economy)	27.894445	27.894445
METHANE (CH4 - Methane)	0.028785	--
CO (Carbon Monoxide)	2.004329	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.448895	--
DT-EER (Drive Trace Energy Economy Rating)	0.442515	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.258531	--
MFR FE (Manufacturer Fuel Economy)	23.7	23.7
NOX (Nitrogen Oxide)	0.051336	--
HC-NM (Non-methane Hydrocarbon)	0.2194	--
NMOG (Non-methane organic gases)	0.241633	--
HC-TOTAL (Total Hydrocarbon)	0.250196	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	367	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	357.389553	--

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 30	CO	2.00	--	--	--	--	--	2.0	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.22	--	--	--	--	--	0.2	0.3	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF						
Emission Data Vehicle Information									
Vehicle ID / Configuration	SHD1-1.5-J-989 / 1	Manufacturer Vehicle Configuration Number	1						
Original Test Group Name	SFMXT01.52X2	Original Evaporative/Refueling Family	SFMXR0125GDF						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	BRONCO SPORT SASQUATCH						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SFMXR0125GDF-001						
Drive Sources and Fuel System Details									
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	No						
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	SCHDCRNA0002	Rated Horsepower	1						
Displacement (liters)	1.5								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)						
Curb Weight (lbs)	3733	Equivalent Test Weight (pounds)	4000						
GVWR (lbs)	4810	N/V Ratio	28.1						
Axle Ratio	3.8								
Transmission Type	Automatic	# of Transmission Gears	8						
Transmission Lockup	Yes	Creeper Gear	No						

Certification Summary Information Report

Test Group		TFMXT01.52X2			Evaporative/Refueling Family			TFMXR0125GDF
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	30.44	0.1837	0.02749	7.14	0.0886	0.02622	14.4	
Cold CO	30.44	0.1837	0.02749	7.14	0.0886	0.02622	N/A	
US06	30.44	0.1837	0.02749	7.14	0.0886	0.02622	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	BRONCO SPORT SASQUATCH							

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
Test #	SFMX10087229	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	07/03/2024	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	89
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7363	Odometer Units	K
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)	297.592622	--
FE BAG 1 (Bag 1 Fuel Economy)	29.154613	29.154613
CO2 BAG 2 (Bag 2 Carbon Dioxide)	289.470696	--
FE BAG 2 (Bag 2 Fuel Economy)	30.239895	30.239895
CO2 BAG 3 (Bag 3 Carbon Dioxide)	276.59201	--
FE BAG 3 (Bag 3 Fuel Economy)	31.548069	31.548069
METHANE (CH4 - Methane)	0.003214	--
CO (Carbon Monoxide)	0.304003	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.992567	--
DT-EER (Drive Trace Energy Economy Rating)	0.466233	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.43692	--
HCHO (Formaldehyde)	0.0001	--
MFR FE (Manufacturer Fuel Economy)	29.7	29.7
NOX (Nitrogen Oxide)	0.006688	--
N2O (Nitrous Oxide)	0.001259	--
HC-NM (Non-methane Hydrocarbon)	0.0087227	--
NMOG (Non-methane organic gases)	0.009595	--
PM (Particulate Matter)	0.000617	--
HC-TOTAL (Total Hydrocarbon)	0.01181	--

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	294	999
Optional Carbon-Related Exhaust Emissions	294	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	287.618253	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
Test #	SFMX91006030	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	09/13/2024	Fuel	Gasoline
Fuel Batch ID	28637	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	4824	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)	320.9845886	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	312.7445984	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	294.4931641	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.005004	--
CO (Carbon Monoxide)	0.2585161	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.5075203	--
DT-EER (Drive Trace Energy Economy Rating)	0.7074457	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.3166683	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0104451	--
N2O (Nitrous Oxide)	0.0024339	--
HC-NM (Non-methane Hydrocarbon)	0.0111737	--
NMOG (Non-methane organic gases)	0.0122728	--
PM (Particulate Matter)	0.0006418	--
HC-TOTAL (Total Hydrocarbon)	0.0160337	--

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

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	309.438324	--

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

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.26	--	--	--	--	--	0.3	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.56	--	--	--	--	--	0.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0050	--	--	--	--	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0024	--	--	--	--	--	0.002	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0123	--	1.1	--	--	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0227	--	--	--	--	--	0.023	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0175	--	--	--	--	--	0.018	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0104	--	--	--	--	--	0.010	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0006	--	--	--	--	--	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	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
Test #	SFMX91005998	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	08/16/2024	Fuel	Gasoline
Fuel Batch ID	28637	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	4716	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)	0.002677	--
CO (Carbon Monoxide)	0.1965324	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.4093761	--
DT-EER (Drive Trace Energy Economy Rating)	-0.1809451	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.2057724	--
MFR FE (Manufacturer Fuel Economy)	40.7860794	--
NOX (Nitrogen Oxide)	0.0120394	--
N2O (Nitrous Oxide)	0.0043212	--
HC-NM (Non-methane Hydrocarbon)	0.0057601	--
NMOG (Non-methane organic gases)	0.0059329	--
HC-TOTAL (Total Hydrocarbon)	0.0083996	--

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	212.2767639	--

Manufacturer Test Comments None

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0059	--	1.03	--	--	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0179	--	--	--	--	--	0.018	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0120	--	--	--	--	--	0.012	999.999	Pass

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

Test #	SFMX10087231	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SFMX10087229	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	07/16/2024	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	7410	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.2929	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2929	--

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	0.2929	0.0000	0.293	0.400	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
Test #	SFMX10087244	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	SFMX10087229	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	07/26/2024	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	7496	Odometer Units	K
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)	0.3523	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3523	--

Manufacturer Test Comments 2 Day EVAP Measured NMOG

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.3523	0.000	0.352	0.400	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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Test #	SFMX10087246	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	SFMX10087229	Test Fuel Type	58 - Tier 3 E10 Regular Gasoline (10 RVP-FFV ORVR Only)
Test Date	07/22/2024	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	7438	Odometer Units	K
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)
OMHCE (Organic material Hydrocarbon Equivalent)	0.016	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.016	--

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	0.016	0.000	0.02	0.20	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
Test #	SFMX91005997	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	08/16/2024	Fuel	Gasoline
Fuel Batch ID	28637	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	4740	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)	550.3944702	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	313.7602844	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0047373	--
CO (Carbon Monoxide)	1.6087346	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.8082151	--
DT-EER (Drive Trace Energy Economy Rating)	-2.1486018	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.6207738	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.017461	--
N2O (Nitrous Oxide)	0.0027108	--
HC-NM (Non-methane Hydrocarbon)	0.0084407	--
NMOG (Non-methane organic gases)	0.008694	--
PM (Particulate Matter)	0.0004555	--
HC-TOTAL (Total Hydrocarbon)	0.0131117	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	366.625946	--

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

Certification Summary Information Report

Test Group		TFMXT01.52X2			Evaporative/Refueling Family				TFMXR0125GDF			
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0005	--	--	--	--	--	0.000	0.006	Pass
Test #		SFMX10087241			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		07/01/2024			Fuel				N/A			
Fuel Batch ID		373-B			Fuel Calibration Number				89			
Vehicle Class		N/A			DF Type				Mfr. Determined			
Verify Test Lab ID		APTL										
E10 Evaporative Test Measurement Method		--										
Test Start Odometer Reading		7339			Odometer Units				K			
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)			0.002895				--					
CO (Carbon Monoxide)			0.041783				--					
DT-ASCR (Drive Trace Absolute Speed Change Rating)			-0.103813				--					
DT-EER (Drive Trace Energy Economy Rating)			0.003633				--					
DT-IWRR (Drive Trace Inertia Work Ratio Rating)			0.297426				--					
MFR FE (Manufacturer Fuel Economy)			22.020202				22.020202					
NOX (Nitrogen Oxide)			0.00482				--					
NMOG (Non-methane organic gases)			0.001314				--					
HC-TOTAL (Total Hydrocarbon)			0.004372				--					
Test Result Name			Unrounded Test Result				Verify Calculated CREE/OPT-CREE					
Carbon-Related Exhaust Emissions			404				--					
Test Result Name			Unrounded Test Result				Verify Calculated CO2					
Carbon dioxide			397.490538				--					
Manufacturer Test Comments		--										

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	89
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/28/2024
Fuel Batch Calibration Effective Date	06/28/2024	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17855
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	28637	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/26/2021
Fuel Batch Calibration Effective Date	08/26/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17894
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	375-B	Fuel Calibration Number	52
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	04/30/2024
Fuel Batch Calibration Effective Date	04/30/2024	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.746
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17893
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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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 30
Fuel	Gasoline	Test Procedure	HWFE

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999

Cert Region	Federal	Cert/In-Use Code	Both
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	Standard Level	Federal Tier 3 Bin 30
Fuel	Gasoline	Test Procedure	Federal fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	METHANE	--	--	--	--	--	--	--	0.030
150,000 miles	N2O	--	--	--	--	--	--	--	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003

Certification Summary Information Report

Test Group		TFMXT01.52X2			Evaporative/Refueling Family			TFMXR0125GDF		
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 30		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	PM	--	--	--	--	--	--	--	0.006	

Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 30		
Fuel		Gasoline			Test Procedure			Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
50,000 miles	CO	--	--	--	--	--	--	--	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	--	0.3	

Evaporative/Refueling Standards

Evaporative/Refueling Family		TFMXR0125GDF			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		TFMXR0125GDF			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	0.000					

Evaporative/Refueling Family		TFMXR0125GDF			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	0.002					

Certification Summary Information Report

Test Group	TFMXT01.52X2		Evaporative/Refueling Family	TFMXR0125GDF	
Evaporative/Refueling Family	TFMXR0125GDF		Cert Region	Federal	
Cert/In-Use Code	Both		Standard Level	Federal Tier 3 Evap	
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0000
Evaporative/Refueling Family	TFMXR0125GDF		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	0.000

Certification Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family	TFMXR0125GDF
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 Summary Information Report

Test Group	TFMXT01.52X2	Evaporative/Refueling Family		TFMXR0125GDF
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		TFMXT01.52X2	Evaporative/Refueling Family		TFMXR0125GDF
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)		M	Manual	
A	Automatic		OT	Other	
AM	Automated Manual		SA	Semi-Automatic	
CVT	Continuously Variable		SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
Drive System Code					
4	4-Wheel Drive		P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	



SECTION 8

Emission Testing Waiver Statements

Refer to Section 14.01.00.00 of Common Section for
Statements of Compliance.



SECTION 8

Emission Testing Waiver Statements and Statements of Compliance

Statement of Compliance for test group TFMXT01.52X2

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

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

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

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

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

Please explain any differences.

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

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

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



SECTION 9

OBD-II System Description

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



SECTION 10

Description of Alternate-Fueled Vehicles

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



SECTION 11

AECD Description

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



SECTION 12

Description of Vehicles Covered by Certificate and Testing Parameters

12.00.00.00

12.00.01.00 Common Family Parameters – Test Group TFMXT01.52X2

Vehicle Program: Bronco Sport 1.5L GTPFDI

<u>Test Group Information</u>	
Vehicle/Engine Class	LDT2
Vehicle Fuel Category	<i>Single Fuel</i>
Operating Fuel 1	<i>Gas</i>
Engine Displacement (liters)	1.5L
SAE net HP @ RPM (98 Ron)	181 @ 6000
SAE net torque ft-lb @ RPM (98 Ron)	200 @ 3000

<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)*	Yes
Cooled EGR *	Yes
Air injection Type (AIR)*	NA=Not applicable
After-Treatment Type *	TWC
Fuel Metering System *	Sequential Fuel (SFI)
Fuel Metering System *	Gasoline Direct (GDI)
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

Calibration Descriptions - TFMXT01.52X2

Certification Code	Exhaust Calibration	Evaporative Calibration	Application	Transmission	Leak Check	Vehicle
TCHDCRNA0002	TCHDCRNA05	TFMXR0125GDF	FED	A/T	0.020	1.5L Ford Bronco Sport
TCHDCRNA0003	TCHDCRNA06					
TCHDCRNA0004	TCHDCRNA07					

Reference Specifications

Spark Plug	Type: JYSP-12YPT Gap: 0.7 (+/-0.05mm)	
Ignition Timing °BTDC (No SPOUT connector)	PCM Controlled	
Idle RPM	PCM Controlled	
Target (Base) in Drive (A/C OFF/A/C ON)	A/T: 860/950 rpm	Special conditions which may require idle speeds higher than base are listed below. (See Section 16.05 for descriptions of these strategies):
In Neutral	A/T: 860/950rpm	
In Neutral	M/T: N/A	

Potential Idle/Drive Speed Modifier	Function Utilized (Y/N)	Purpose
Low or high air charge temperature	Y	Heater, A/C or engine cooling performance
Low catalyst temperature	Y	Achieve/maintain light off
Low engine coolant temperature	Y	Combustion stability
Low or high ambient temperature	Y	Heater or A/C performance
High transmission oil temperature	N	Ensure adequate fluid pressure
Low battery voltage	Y	Avoid stalling or no-start
High Alternator load	N	Preserve battery life and avoid low voltage
High-speed fan operation	N	For engine and A/C condenser cooling
Extended neutral idle time	Y	Maintain catalyst temperature
Power steering pressure	N	Ensure adequate P/S assistance
High Altitude	Y	Maintain air mass flow to avoid stalling
Alternate calibration	Y	Avoid spark plug fouling during plant/dealer handling
Drive Speed Control or Shift Delay	Y	Increase engine speed to improve cabin heating or cooling
Heated Windshield	N	Maintain charging margin
ETC Failure	Y	Electronic Throttle Failure Min RPM
A/C Adder (25RPM)	N	NVH Improvement

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

FUEL

Fuel Injector (DI)	Signal from PCM	Fuel Flow	N/A	Static Flow Rate: 110 mg/stroke (697.8 g/min)
Fuel Injector (PFI)	Signal from PCN	Fuel Flow	N/A	
Regulated Fuel Pressure (DI)	Signal from PCM	Fuel Pressure	N/A	Static Flow Rate: 139 g/min
Regulated Fuel Pressure (PFI)	Signal from PCM	Fuel Pressure	N/A	350 bar
Fuel Pump	Signal from PCM	Fuel Flow	N/A	485 kPa
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	142.7-201.2 lph Throttle Diameter: 55 mm

Fuel System Control Strategy²

Air-fuel 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 FNWOT_POPCORN_LAM and the entry conditions in function FN311P
Air-Fuel enrichment for driver torque demand delay	Time and Gear	Air-Fuel Ratio (LAMBSE)	Allows time for downshift; limit enrichment to unusual conditions	See Section 16.00.05.00 for delay time calibration FN1311 and the maximum count-up time, OL_DELAYMAX
Air-fuel Enrichment For Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either CAT_MAX or CAT_MAX_LO and CAT_MAX_HI and the time delay on CAT_MAX_LO, CAT_TMR_THRES
Air-fuel Enrichment For Engine Protection	Engine Coolant Temperature (ECT)	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for max engine coolant temperature to trigger enrichment, ECT_HOT_THRES

Emission Component	Sensed Parameter	Controlled Parameter	Justification¹	Calibration
Air-fuel Enrichment For O2 Sensor Protection	Inferred Oxygen Sensor Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred O2 Sensor temperature to trigger enrichment, FEGO_MAX
Air-fuel Enrichment For Engine/Exhaust Manifold Protection	Inferred Exhaust Manifold Flange Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred exhaust flange temperature, FLN_MAX or FLN_MAX_LO and FLN_MAX_HI and the time delay on FLN_MAX_LO, FLN_TMR_THRES
Air-fuel Enrichment following Deceleration Fuel Shut-Off (DFSO)	Injector state, inferred catalyst O ₂ stored, and CMS voltage	Air-Fuel Ratio (LAMBSE)	Substantially demonstrated on FTP	See Section 16.00.05.00 for air-fuel ratio utilized following fuel shut-off event, LAM_REACT
<u>CRANKCASE</u>				
Crankcase Ventilation Oil Separator Assembly	Manifold Vacuum	Air Flow to Engine	Operates in FTP	17.9 L/min @ -60.0 kPa 34 L/min @ -46.7 kPa 45 L/min @ -26.7 kPa 45 L/min @ -13.3 kPa
Crankcase Ventilation Oil Separator Assembly – Not Heated	Ambient Temp Battery Voltage	PCV Heating	Vehicle Safety	N/A

Emission Component	Sensed Parameter	Controlled Parameter	Justification¹	Calibration
VCT Control Strategy				
BASE Cam timing	Requested Engine Speed and Load	Cam Phase Timing	Demonstrated on FTP ³	See Section 16.00.05.00 for FNHDFX_BEST_FE_DIST
Cam Timing Limitation for Combustion Stability	Requested Torque and Engine Speed	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for FNHDFX_VCT_OPSTAB_DIST
Cam Actuator Limitation for Oil Temperature	Oil Temperature; or Time-since-start and ECT-at-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for FNHDFX_VCT_EOT_EXH and FNHDFX_VCT_EOT_INT
Cam Actuator Limitation for start-up	Engine Coolant Temp. at start and time-since-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for FNHDFX_VCT_COMB_STAB_EXH and FNHDFX_VCT_COMB_STAB_INT
Cam Limitation under High Torque Demand	Engine Speed and Requested Torque	Cam Phase Timing or Throttle Position	Protection against damage or accident	See Section 16.00.05.00 for FNHDFX_BEST_DRIVE_DIST
BASE Cam timing	Requested Engine Speed and Load	Cam Phase Timing	Demonstrated on FTP ³	See Section 16.00.05.00 for FNHDFX_BEST_FE_DIST

Emission Component	Sensed Parameter	Controlled Parameter	Justification¹	Calibration
ENGINE COOLING				
Thermostat	Coolant Temperature	Coolant Flow	Engine Protection	Start to Open: 90°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: TFMXT01.52X2**

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
BRONCO SPORT 4WD, BRONCO SPORT SASQUATCH	Initial	TCHDCRNA0002	TCHDCRNA05	PT1PA-12A650- BC	07/02/2025
BRONCO SPORT 4WD, BRONCO SPORT SASQUATCH	Initial	TCHDCRNA0003	TCHDCRNA06	PT1PA-12A650- BD	09/17/2025
BRONCO SPORT 4WD, BRONCO SPORT SASQUATCH	RC01	TCHDCRNA0004	TCHDCRNA07	PT1PA-12A650- BE	11/05/2025

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

Engine Family: TFMXT01.52X2

2026MY1.5L BRONCO

<u>Part Name</u>	<u>Part Number</u>
Cam Cover & Gskt Assembly	PV4E-6K271-AE
Camshaft Position Sensor Assembly	P2GA-12K073-BB
Catalyst	PZ11-5E211-RF PZ11-5E212-KD
Charge Air Cooler	LX61-6K775-EB
Crank Position Sensor	GN1A-6C315-AB
Cylinder Head Temp Sensor	P2GA-6G004-AC
EGR Cooler Assy	P2GE-9F464-AC
EGR Temp Sensor	P2GA-9U498-AE
EGR Valve	P2GE-9D475-AE
Electronic Throttle Body	P2GE-9F991-AC
Engine Coolant Temperature Sensor	P2GA-12A648-AB
Fuel Injector (DI)	P2GE-9G929-BA
Fuel Injector (PFI)	P2GE-9F593-AA
Fuel Pressure Sensor (High Pressure)	P2GE-9F972-AA
Fuel Pressure Sensor (Low Pressure)	P2GE-9F972-BA
Fuel Pump High Pressure	P2GE-9D376-AA
Heated Air/Fuel Sensor (WR-HO2S)	PZ11-9Y460-EA
Heated Oxygen Sensor (CMS)	PZ11-9G444-BC
Knock Sensor	GN1A-12A699-BA
Manifold Absolute Pressure Sensor	LV2A-9F479-BA
Oil Separator Asy	PV4E-6A785-AB
Turbo Charger	PV4E-6K682-AC
VCT Solenoid	P2GE-6B297-AC
Fuel Pump Low Pressure	LX61-9350-AA
Mass Air Flow Sensor	JX6A-12B579-EB

2026MY TEST VEHICLE REQUIREMENTS

	CAP2000 Exhaust Data Vehicles	CAP2000 Evaporative Data Vehicles
Test Group	SFMXT01.52X2	SFMXT01.52X2
Evap Emission Family	SFMXR0125GDF	SFMXR0125GDF
Displacement	1.5L	1.5L
Engine Code	SCHDCRNA0000/ SCHDCRNA0002	SCHDCRNA0002
Fuel Tank Code	P2 (16.7 gal)	P2 (16.7 gal)
Exhaust Control System	TWC/WR- HO2S/HO2S/TC/CAC/EGR/E GRC/DFI/SFI	TWC/WR- HO2S/HO2S/TC/CAC/EGR/E GRC/DFI/SFI
Model	Bronco Sport Sasquatch	Bronco Sport Sasquatch
Equivalent Test Weight	4000	4000
Curb Weight	3733 lbs	3733 lbs
GVWR	4810 lbs	4810 lbs
THP	14.4	14.4
DPA	f0 = 30.44	f0 = 30.44
	f1 = 0.1837	f1 = 0.1837
	f2 = 0.02749	f2 = 0.02749
Axle Ratio	3.80	3.80
N/V Ratio - RPM/MPH	28.1	28.1
Tires	235/65R17 GOODYEAR	235/65R17 GOODYEAR
Vehicle ID No	SHD1-1.5-J-989	SHD1-1.5-J-989
Configuration Number	0 (FTP20) / 1	1
Model Year	2025	2025

Test Group: TFMXT01.52X2

Issued: 10/02/2025

Revised:

12.00.05.00

Vehicle Description Report

Test Group: TFMXT01.52X2

ID Number	5290664	5293125	5290663	5293127
Displacement	1.5	1.5	1.5	1.5
Cert Code	TCHDCRNA0002	TCHDCRNA0003	TCHDCRNA0002	TCHDCRNA0003
Fuel Tank(s)	P2	P2	P2	P2
Carline	BRONCO SPORT 4WD	BRONCO SPORT 4WD	BRONCO SPORT SASQUATCH	BRONCO SPORT SASQUATCH
Wheel Configuration	Standard	Standard	Standard	Standard
Body Style	4 Door	4 Door	4 Door	4 Door
Wheelbase	105.1	105.1	105.1	105.1
Transcode Combo	GM381S	GM381S	GM381S	GM381S
Curb Weight	3503	3503	3749	3749
ETW	3750	3750	4000	4000
Loaded Weight LVW	3803	3803	4049	4049
ALVW-ETW	4000	4000	4250	4250
Adj. Loaded Weight	4092	4092	4280	4280
GVWR	4680	4680	4810	4810
GCWR	6070	6070	6320	6320
Min Axle Ratio	3.8	3.8	3.8	3.8
Max Axle Ratio	3.8	3.8	3.8	3.8
Min N/V Ratio	28.4	28.4	28.1	28.1
Max N/V Ratio	28.6	28.6	28.1	28.1
Emission Vehicle Class	LDT2	LDT2	LDT2	LDT2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	4-Wheel Drive	4-Wheel Drive
Trans Type	Automatic	Automatic	Automatic	Automatic
Calibration Application	FED	FED	FED	FED
Min Tire Size	225/60R18 - 28.4	225/60R18 - 28.4	P235/65R17 - 28.1	P235/65R17 - 28.1
Max Tire Size	225/65R17 - 28.6	225/65R17 - 28.6	P235/65R17 - 28.1	P235/65R17 - 28.1
Alt Tire 1				
Alt Tire 2				
Alt Tire 3				
Alt Tire 4				
Alt Tire 5				
Alt Tire 6				
Alt Tire 7				
DAW Full Tank	2036	2036	2117	2117
DAW Empty Tank	2014	2014	2095	2095

Vehicle Description Report

Test Group: TFMXT01.52X2

ID Number	5298222	5298227	5298225	5298229
Displacement	1.5	1.5	1.5	1.5
Cert Code	TCHDCRNA0003	TCHDCRNA0004	TCHDCRNA0003	TCHDCRNA0004
Fuel Tank(s)	P2	P2	P2	P2
Carline	BRONCO SPORT 4WD	BRONCO SPORT 4WD	BRONCO SPORT SASQUATCH	BRONCO SPORT SASQUATCH
Wheel Configuration	Standard	Standard	Standard	Standard
Body Style	4 Door	4 Door	4 Door	4 Door
Wheelbase	105.1	105.1	105.1	105.1
Transcode Combo	GM381S	GM381S	GM381S	GM381S
Curb Weight	3501	3501	3756	3756
ETW	3750	3750	4000	4000
Loaded Weight LVW	3801	3801	4056	4056
ALVW-ETW	4000	4000	4250	4250
Adj. Loaded Weight	4091	4091	4283	4283
GVWR	4680	4680	4810	4810
GCWR	6100	6100	6320	6320
Min Axle Ratio	3.8	3.8	3.8	3.8
Max Axle Ratio	3.8	3.8	3.8	3.8
Min N/V Ratio	28.4	28.4	28.1	28.1
Max N/V Ratio	28.6	28.6	28.1	28.1
Emission Vehicle Class	LDT2	LDT2	LDT2	LDT2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	4-Wheel Drive	4-Wheel Drive
Trans Type	Automatic	Automatic	Automatic	Automatic
Calibration Application	FED	FED	FED	FED
Min Tire Size	225/60R18 - 28.4	225/60R18 - 28.4	P235/65R17 - 28.1	P235/65R17 - 28.1
Max Tire Size	225/65R17 - 28.6	225/65R17 - 28.6	P235/65R17 - 28.1	P235/65R17 - 28.1
Alt Tire 1				
Alt Tire 2				
Alt Tire 3				
Alt Tire 4				
Alt Tire 5				
Alt Tire 6				
Alt Tire 7				
DAW Full Tank	2034	2034	2121	2121
DAW Empty Tank	2012	2012	2099	2099



SECTION 14

Request for Certification



**Environmental & Safety Compliance
Ford Motor Company**

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

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

October 10, 2025

Dear Ms. Frame:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year Light-duty trucks (LDTs) contained in Ford's Federal Only test group TFMXT01.52X2 and evaporative emission family TFMXR0125GDF. The test fuel used is Federal Tier 3 (E10) Fuel.

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

Certification & In-Use FTP Standards (g/mi)	Useful Life	NMOG+NOx (g/mi)	CO (g/mi)	PM (g/mi)	HCHO (g/mi)	N2O (g/mi)	CH4 (g/mi)
Federal Tier 3 Bin 30	150K	0.030	1.0	0.003	0.004	0.010	0.030

This test group meets the SFTP NMOG+NOx Composite Family Emission Limit (FEL) of 0.07 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 (LDT2). NMHC Family Emission Limit (FEL) of 0.3 g/mi as part of compliance plan to meet corporate fleet average cold NMHC standards.

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

Tier 3	Useful Life	Hot Soak + 2-day diurnal (g/test)	Hot Soak + 3-day diurnal (g/test)	Running Loss (g/mi)	ORVR (g/gal)	BETP (g/test)
Evaporative Standards	150K	0.400	0.400	0.05	0.20	0.020

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

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 1, subject: Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year gasoline powered light-duty vehicles (LDVs) contained in Ford's Federal Only test group, dated October 10, 2025. Therefore, in accordance with the provisions of 40 CFR

86.1844-01(d)(14) including the provisions of 40 CFR Parts 85 including the provisions of 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 David Perez at dperez92@ford.com, if you have any questions regarding this submission.

Sincerely

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

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



SECTION 15

Other Information

15.00.00.00



CCAPS Manual Payment Request

(North America)

REF NO: 306179

NAME AND ADDRESS OF PAYEE

Environmental Protection Agency-MVECP

U.S. Bank - Government Lockbox 979032

1300 Pennsylvania Ave NW - Washington, DC 20004-3002

The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically by ACH.

REASON FOR DISBURSEMENT

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

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

2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)

LOC CODE	GEN. LED.	SUB. ACCT.	SUB. DIV.	DEPT	PROD. CODE	BALANCE REFERENCE	MISC. REFERENCE	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
5100	25A	00217		5100S910		F102A	EPA	306179	3/31/2025	197,634.00	N
TOTAL										197,634.00	

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

TYPE OF INVOICE:

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

Legal Matters Environmental Fees

Requestor

Operations Approval - Receipt of Service

<p>Preparer/Requestor</p> <p>CDS ID: <i>TOI/VER</i></p> <p>Signature: <i>[Signature]</i></p> <p>Date: 3/31/25</p>	<p>Approver</p> <p>CDS ID: LMERRIT2</p> <p>Signature: <i>Lawrence Merritt</i></p> <p>Date: 3/31/2025</p> <p>DocuSigned by: DF6ED4749EAC46B...</p>
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Approvals per Corporate Approval Authorities - Method of Payment

<p>Payment Item is on Uses of Manual Payment Requests</p> <p>CDS ID: PBLANCAS</p> <p>Signature: <i>Patricia Blancas Ruiz</i></p> <p>Date: 3/31/25</p> <p>DocuSigned by: 98D37B2D5DA0498...</p> <p>Finance LL5+ or Plant Controller (LL6) Unlimited</p> <p>Finance LL6 < \$250,000</p>	<p>Payment Item is not on Uses of Manual Payment Requests</p> <p>CDS ID: _____</p> <p>Signature: _____</p> <p>Date: _____</p> <p>Finance LL4+ Unlimited</p> <p>Finance LL5 < \$25,000</p>
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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

306179

EPA_MVECP_v1

US EPA Fee Form

Tracking Information

Pay.gov Tracking ID: 27MOPKQP

Agency Tracking ID: 76999881404

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 03/26/2025

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

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

Engine Family / Evaporative Family / Test Group *

TFMXT01.52X2

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

- On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- On-Highway HDE Dyno Cert (Federal) (E, H)
- On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- On-Highway Motorcycle (C)
- On-Highway HDV Evap (F)
- On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- On-Highway HDE Dyno Cert (California-Only) (E, H)
- Nonroad CI (L)
- Nonroad SI (B, S)
- Locomotive (G, K)
- All Nonroad Recreational, excluding Marine engines (X, Y)
- All Marine (Including IMO) (M, N, W)
- Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

\$32,939.00

Payment Type *

Offline ACH

Comments

David G. Perez Sifuentes. Bronco Sport 1.5L AWD

Tracking Information

Pay.gov Tracking ID: 27MOPKQP

Agency Tracking ID: 76999881404

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 16

Confidential Information

16.00.00.00



SECTION 17

California ARB Requirements

TFMXT01.52X2

FoMoCo	Ford Motor Company VEHICLE EMISSION CONTROL INFORMATION
Conforms to regulations: 2026 MY	
U.S. EPA: T3B30 LDT2	
OBD: FED OBD Fuel: Gasoline	
California: Not for sale in states with California Emissions Standards	
TWC/WR-HO2S/HO2S/TC/CAC/EGR/EGRC/DFI/SFI	
No adjustments needed.	
1.5L-Group: TFMXT01.52X2 Evap: TFMXR0125GDF	
▽ TW7E-9C485- L A L	



SECTION 18

Revisions

18.00.00.00

APPLICATION REVISIONS

TFMXT01.52X2

<u>NO.</u>	<u>DATE</u>	<u>PAGE(S)</u>	<u>DESCRIPTION</u>
RC01	11/14/2025	12.00.02.00 12.00.03.00 12.00.06.00 16.00.05.00 18.00.00.00	<p><u>ENGINE CALIBRATION CHANGES:</u></p> <ul style="list-style-type: none">• Active Grill Shutters<ul style="list-style-type: none">○ ptags_vs_mtr_01_posn_n Curve adjusted to comonize with Green State from [0, 20, 50, 80, 110, 150, 200] to [5, 20, 50, 77, 85, 150, 160] (KPH) <p><u>ENGINE OBD CHANGES:</u></p> <ul style="list-style-type: none">• Evap Monitor<ul style="list-style-type: none">○ The changes below were made as a calibration robustness action to prevent false detections that were seen on a previous test trip.○ pgm_blk_flw from 0.03 to 0.02 (lbs/ minute)○ Value of purge flow for the pulse flow for the blocked line test.○ pgm_blk_pw from 0.6 to 1.0 (Seconds)○ Time width of the purge flow pulse used in the blocked line test.○ fnpgm_blk_dltf from -6 to -8 (Inches of H2O)○ Change in pressure value indicating a blocked line during the blocked line test. <p>Reference whitepapers: 15519</p>

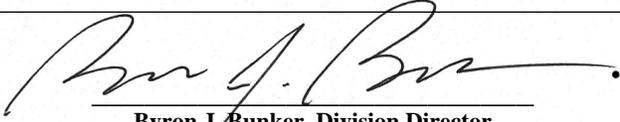
Application for Certification

Part 2



**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: TFMXT01.52X2-066	<u>Effective Date:</u> 11/07/2025 <u>Expiration Date:</u> 12/31/2026	 <hr/> Byron J. Bunker, Division Director Compliance Division	<u>Issue Date:</u> 11/07/2025 <u>Revision Date:</u> N/A
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Test Group Name: TFMXT01.52X2 Evaporative/Refueling Family Name: TFMXR0125GDF Applicable Exhaust Emission Standards: Federal Tier 3 Bin 30 Applicable Evaporative/Refueling Standards: Federal Tier 3 Evap	Engine Displacement: 1.5 Liters Exhaust Emission Test Fuel Type: Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) Full Useful Life Miles: Exhaust Emissions: 150,000 miles Full Useful Life Miles: Evaporative/Refueling Emissions: 150,000 miles
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Models Covered: Ford: BRONCO SPORT 4WD, BRONCO SPORT SASQUATCH

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.