

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

CARB USE ONLY

Invoice Name	MSF240804
Invoice Date	Feb 06, 2025

COMPANY INFORMATION

Company Name	Ford Motor Company
Address	1 American Road
City	Dearborn
State	Michigan
Zip	48193
Country	United States
Contact Name	Tina Oliver
Contact Telephone Number	313-3238938
Contact Email	toliver@ford.com
CARB Customer Number	CCAM000031

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	26_CBI_TFMXT03.0JPC_APP	Model Year 2026	TFMXT03.0JPC	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
2	26_CBI_TFMXT02.34K4_APP	Model Year 2026	TFMXT02.34K4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
3	26_CBI_TFMXT02.02JF_APP	Model Year 2026	TFMXT02.02JF	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
4	26_CBI_TFMXT03.0TPC_APP	Model Year 2026	TFMXT03.0TPC	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
5	26_CBI_TFMXT03.33F1_APP	Model Year 2026	TFMXT03.33F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
6	26_CBI_TFMXV05.0VKN_APP	Model Year 2026	TFMXV05.0VKN	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
7	26_CBI_TFMXV05.2GTD_APP	Model Year 2026	TFMXV05.2GTD	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
8	26_CBI_TFMXV03.33U3_APP	Model Year 2026	TFMXT03.33U3	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
9	26_CBI_TFMXT02.54F1_APP	Model Year 2026	TFMXT02.54F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00

10	26_CBI_TFMXT01.52X4_APP	Model Year 2026	TFMXT01.52X4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
11	26_CBI_TFMXV02.3VJG_APP	Model Year 2026	TFMXV02.3VJG	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
12	26_CBI_TFMXT03.51F2_APP	Model Year 2026	TFMXT03.51F2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
13	26_CBI_TFMXT02.02Y5_APP	Model Year 2026	TFMXT02.02Y5	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
14	26_CBI_TFMXT03.57AV_APP	Model Year 2026	TFMXT03.57AV	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
15	26_CBI_TFMXT05.03DP_APP	Model Year 2026	TFMXT05.03DP	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
16	26_CBI_TFMXT03.54HT_APP	Model Year 2026	TFMXT03.54HT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
17	26_CBI_TFMXT03.54JK_APP	Model Year 2026	TFMXT03.54JK	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
18	26_CBI_TFMXT02.73JK_APP	Model Year 2026	TFMXT02.73JK	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
19	26_CBI_TFMXT00.0BG2_APP	Model Year 2026	TFMXT00.0BG2	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
20	26_CBI_TFMXT00.0BG4_APP	Model Year 2026	TFMXT00.0BG4	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
21	26_CBI_TFMXT05.2AHS_APP	Model Year 2026	TFMXT05.2AHS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
22	26_CBI_TFMXV00.0B4A_APP	Model Year 2026	TFMXV00.0B4A	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
23	26_CBI_TFMXV00.0G4A_APP	Model Year 2026	TFMXV00.0G4A	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
24	26_CBI_TFMXT02.36HH_APP	Model Year 2026	TFMXT02.36HH	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
25	26_CBI_TFMXT03.03V8_APP	Model Year 2026	TFMXT03.03V8	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
26	26_CBI_TFMXV00.0B4R_APP	Model Year 2026	TFMXV00.0B4R	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
27	26_CBI_TFMXV00.0BLA_APP	Model Year 2026	TFMXV00.0BLA	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
28	26_CBI_TFMXV00.0BLR_APP	Model Year 2026	TFMXV00.0BLR	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,111.00
29	26_CBI_TFMXT02.31EN_APP	Model Year 2026	TFMXT02.31EN	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
30	26_CBI_TFMXT02.72V9_APP	Model Year 2026	TFMXT02.72V9	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
31	26_CBI_TFMXT02.71HT_APP	Model Year 2026	TFMXT02.71HT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
32	26_CBI_TFMXV05.2VEZ_APP	Model Year 2026	TFMXV05.2VEZ	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00

				medium-duty vehicle test group				
						<table><tr><td>Total Due</td><td>\$ 1,295,952.00</td></tr></table>	Total Due	\$ 1,295,952.00
Total Due	\$ 1,295,952.00							

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: TFMXT01.52X4
Durability Group: TFMXGPGNNE4C
Evap. Families: TFMXR0125GDF
Test Group Description: 1.5L I-3
Durability Group Description: Four Stroke, Otto Cycle, Gasoline Fueled,
Turbocharged, Catalyst Code E
Applicable Standards: Federal Exhaust - Tier 3 Bin 30
California Exhaust - LEV-III SULEV30
Federal Evap - Tier 3
California Evap - LEV-III
CH₄ - 0.030 g/mi
California Particulate Matter - 0.001 g/mi
Federal Cold NMHC - 0.3 g/mi Federal
Particulate Matter - 0.001 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:	
THD1-1.5-J-180/Config 0		SHD1-1.5-J-989/Config 1 (TFMXR0125GDF)	
FTP (E10) TN	TFMX91006397	2Day TN	SFMX10087244
HWY (E10) TN	TFMX91006396	3Day TN	SFMX10087231
US06 (E10) TN	TFMX91006395	Linking TN	SFMX10087229
SC03 (E10) TN	TFMX10090428	ORVR	SFMX10087246
Cold CO (E10) TN	TFMX10090430	RL TN	SFMX10087245
		313W540/Config 0 (TFMXR0125GDF)	
		BETP	LFMX10058649

Release Date: February 13, 2026

For Questions, Contact:

Perez, David, dperez92@ford.com (313-805-6360)



Part 1 Application Index

- § 00.00.00.00 Cover Page**
- § 02.00.00.00 Durability Group Description**
- § 03.00.00.00 Evaporative/ Refueling Family Description**
- § 04.00.00.00 Durability Procedure Description**
- § 05.00.00.00 Test Group Description**
- § 06.00.00.00 Test Vehicle Description**
- § 07.00.00.00 Test Results**
 - 07.00.01.00 EPA Certification Summary Information (CSI) report(s)
- § 08.00.00.00 Emission Testing Waiver Statements**
 - 08.00.01.00 Statements of compliance
- § 09.00.00.00 OBDII System Description**
- § 10.00.00.00 Alternate –Fueled Vehicle Description**
- § 11.00.00.00 AECD Descriptions**
- § 12.00.00.00 Description of Vehicles Covered by Certificate and Test Parameters**
 - 12.00.01.00 Common Family Parameters
 - 12.00.02.00 Calibration Description
 - 12.00.03.00 Calibration Parts List
 - 12.00.05.00 Test Vehicle Requirements
 - 12.00.06.00 Vehicle Description Reports
- § 14.00.00.00 Request for Certification**
- § 15.00.00.00 Other Information**
 - 15.00.01.00 Fee Filing Form
- § 16.00.00.00 Confidential Information**
 - 16.00.01.00 Family Catalyst Information
 - 16.00.03.00 OBD II Deficiency Summary
 - 16.00.04.00 DF Summary
 - 16.00.05.00 PowerTrain Control Module (PCM) - Parameters
- § 17.00.00.00 California ARB Information**
 - 17.00.03.00 VECI Label
- § 18.00.00.00 Revisions**

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	TFMXT01.52X4	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	09/18/2025 01:25:28 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
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	TFMXGPGNNE4C	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	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 Litmus Value= 22.4 , City Litmus Threshold Value= 21.9 , Highway Litmus Value=24.9 , Highway Litmus Threshold Value=26.0		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	TFMXT01.52X4	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	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	8	Yes
Ford Motor Company	1 - Ford	32 - BRONCO SPORT SASQUATCH	California + CAA Section 177 states	4-Wheel Drive	Automatic	8	Yes
Ford Motor Company	1 - Ford	25 - BRONCO SPORT 4WD	Federal	Part-time 4-Wheel Drive	Automatic	8	Yes

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF	
Engine Description				
Hybrid Type	--	Hybrid Description	--	
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--	
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	1.5 Liter, I3, LDT2 - GPF	
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 0W-20 /ILSAC GF-6	
Number of Cylinders/Rotors	3	Mechanically Variable Compression Ratio Indicator	N	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Other	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
GPF, Can 1 = TWC; Can 2 = TWC/Uncoated GPF				
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	Oxygen	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	--	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	--			

Certification Summary Information Report

Test Group		TFMXT01.52X4				Evaporative/Refueling Family		TFMXR0125GDF			
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		TFMX91006397	TFMX91006395	TFMX10090428	TFMX10090430	TFMX91006396	110.4	228.2	999.9	286.1	1.0
SFTP LEV-III Official Test Numbers											
Test Group Fuel		FTP		US06		SC03					
Gasoline		TFMX91006397		TFMX91006395		TFMX10090428					

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF						
Emission Data Vehicle Information									
Vehicle ID / Configuration	313W540 / 0	Manufacturer Vehicle Configuration Number	1						
Original Test Group Name	LFMXT01.52X1	Original Evaporative/Refueling Family	LFMXR0125GDF						
Original Test Vehicle Model Year	2020								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Escape						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	LFMXR0125GDF-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	LCTCY1NB06	Rated Horsepower	180						
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	Air	Drive Mode While Testing	2-Wheel Drive, Front						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	3464	Equivalent Test Weight (pounds)	3750						
GVWR (lbs)	4760	N/V Ratio	28.6						
Axle Ratio	3.81								
Transmission Type	Semi-Automatic	# of Transmission Gears	8						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	TFMXT01.52X4	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	--
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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
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0038	0	0.004	0.020	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X4	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"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	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	Creep Gear	No						

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Certification Summary Information Report

Test Group	TFMXT01.52X4	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	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Test Result Name</th> <th style="width: 33%;">Unrounded Test Result</th> <th style="width: 33%;">Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>294</td> <td>999</td> </tr> <tr> <td>Optional Carbon-Related Exhaust Emissions</td> <td>294</td> <td>999</td> </tr> </tbody> </table>	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 CREE/OPT-CREE										
Carbon-Related Exhaust Emissions	294	999										
Optional Carbon-Related Exhaust Emissions	294	999										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Test Result Name</th> <th style="width: 33%;">Unrounded Test Result</th> <th style="width: 33%;">Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>287.618253</td> <td>--</td> </tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	287.618253	--					
Test Result Name	Unrounded Test Result	Verify Calculated CO2										
Carbon dioxide	287.618253	--										
Manufacturer Test Comments	--											
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Test Result Name</th> <th style="width: 33%;">Unrounded Test Result</th> <th style="width: 33%;">Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0.2929</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.2929</td> <td>--</td> </tr> </tbody> </table>			Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	OMHCE (Organic material Hydrocarbon Equivalent)	0.2929	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2929	--
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				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2929	0.0000	0.293	0.400	Pass				

Certification Summary Information Report

Test Group	TFMXT01.52X4	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																														
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>OMHCE (Organic material Hydrocarbon Equivalent)</td><td>0.3523</td><td>--</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.3523</td><td>--</td></tr></table>				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	--																		
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																														
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC-TOTAL-EQUIV</td><td>0.3523</td><td>0.000</td><td>0.352</td><td>0.400</td><td>Pass</td></tr><tr><td>CA</td><td>150,000 miles</td><td>California LEV-III Zero Evap (Option 2)</td><td>OMHCE</td><td>0.3523</td><td>0.0000</td><td>0.352</td><td>0.400</td><td>Pass</td></tr></table>				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	CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3523	0.0000	0.352	0.400	Pass
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																						
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3523	0.0000	0.352	0.400	Pass																						

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF
Test #	SFMX10087245	Test Procedure	32 - Federal Fuel Running Loss
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	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 (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.002	0.00	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.000	0.002	0.00	0.05	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF																																
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																																			
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>OMHCE (Organic material Hydrocarbon Equivalent)</td><td>0.016</td><td>--</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.016</td><td>--</td></tr></table>				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	--																							
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																																			
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC-TOTAL-EQUIV</td><td>0.016</td><td>0.000</td><td>0.02</td><td>0.20</td><td>Pass</td></tr><tr><td>CA</td><td>150,000 miles</td><td>California LEV-III Zero Evap (Option 2)</td><td>OMHCE</td><td>0.016</td><td>0.000</td><td>0.02</td><td>0.20</td><td>Pass</td></tr></table>									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	CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.016	0.000	0.02	0.20	Pass
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																											
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.016	0.000	0.02	0.20	Pass																											

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF						
Emission Data Vehicle Information									
Vehicle ID / Configuration	THD1-1.5-J-180 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	TFMXT01.52X4	Original Evaporative/Refueling Family	TFMXR0125GDF						
Original Test Vehicle Model Year	2026								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Bronco Sport						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	TFMXR0125GDF-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	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	TCHDCRNC00	Rated Horsepower	181						
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	4,000 (mi)						
Curb Weight (lbs)	3738	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	Creep Gear	No						

Certification Summary Information Report

Test Group		TFMXT01.52X4			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	30.33	0.1863	0.02727	3.49	0.0624	0.02586	14.4	
Cold CO	30.33	0.1863	0.02727	3.49	0.0624	0.02586	N/A	
US06	30.33	0.1863	0.02727	3.49	0.0624	0.02586	N/A	
Emission Control Device Comments		T3B30 PM1						
Manufacturer Test Vehicle Comments		25MY Bronco Sport 1.5L with GPF						

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF
Test #	TFMX10090430	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	04/09/2025	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	64
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	123	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)	384.971018	--	
FE BAG 1 (Bag 1 Fuel Economy)	21.455731	21.455731	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	342.302298	--	
FE BAG 2 (Bag 2 Fuel Economy)	25.238063	25.238063	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	297.091899	--	
FE BAG 3 (Bag 3 Fuel Economy)	29.089473	29.089473	
METHANE (CH4 - Methane)	0.032931	--	
CO (Carbon Monoxide)	2.03713	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.708885	--	
DT-EER (Drive Trace Energy Economy Rating)	0.283776	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.27025	--	
MFR FE (Manufacturer Fuel Economy)	25.2	25.2	
NOX (Nitrogen Oxide)	0.028874	--	
HC-NM (Non-methane Hydrocarbon)	0.209891	--	
NMOG (Non-methane organic gases)	0.231326	--	
HC-TOTAL (Total Hydrocarbon)	0.241279	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	343	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	338.7	--	

Certification Summary Information Report

Test Group		TFMXT01.52X4				Evaporative/Refueling Family				TFMXR0125GDF			
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	2.04	--	--	--	--	0	--	2.0	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.21	--	--	--	--	0	--	0.2	0.3	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	2.04	--	--	--	--	0	--	2.0	12.5	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF
Test #	TFMX91006397	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	05/20/2025	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	4072	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)	306.0890808	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	294.7588806	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	294.1461792	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0046428	--
CO (Carbon Monoxide)	0.2523509	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.0246233	--
DT-EER (Drive Trace Energy Economy Rating)	0.0212959	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.3892968	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0083694	--
N2O (Nitrous Oxide)	0.0010885	--
HC-NM (Non-methane Hydrocarbon)	0.0135298	--
NMOG (Non-methane organic gases)	0.0148606	--
PM (Particulate Matter)	0.0002161	--
HC-TOTAL (Total Hydrocarbon)	0.0180273	--

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

Certification Summary Information Report

Test Group		TFMXT01.52X4			Evaporative/Refueling Family				TFMXR0125GDF																			
<table><tr><td colspan="2">Test Result Name</td><td colspan="3">Unrounded Test Result</td><td colspan="3">Verify Calculated CO2</td></tr><tr><td colspan="2">Carbon dioxide</td><td colspan="3">296.9376526</td><td colspan="3">--</td></tr></table>													Test Result Name		Unrounded Test Result			Verify Calculated CO2			Carbon dioxide		296.9376526			--		
Test Result Name		Unrounded Test Result			Verify Calculated CO2																							
Carbon dioxide		296.9376526			--																							
Manufacturer Test Comments		None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2, FE BAG 3																										
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	0.25	--	--	--	0	--	0.2	1.0	Pass																
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.15	--	--	--	--	1	0.2	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	0.0046	--	--	--	0	--	0.005	0.030	Pass																
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0011	--	--	--	0	--	0.001	0.010	Pass																
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0149	--	1.1	--	0	--	0.015	999.999	Pass																
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0233	--	--	--	--	--	0.023	0.030	Pass																
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0113	--	--	--	--	1	0.011	0.070	Pass																
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0084	--	--	--	0	--	0.008	999.999	Pass																
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0002	--	--	--	0	--	0.000	0.003	Pass																
CA	150,000 miles	California LEV-III SULEV30	CO	0.25	--	--	--	0	--	0.2	1.0	Pass																
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0149	--	1.1	--	0	--	0.015	999.999	Pass																
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0233	--	--	--	--	--	0.023	0.030	Pass																
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0113	--	--	--	--	--	0.011	0.070	Pass																
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0084	--	--	--	0	--	0.008	999.999	Pass																
CA	150,000 miles	California LEV-III SULEV30	PM	0.0002	--	--	--	0	--	0.000	0.001	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	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF																																				
Test #	TFMX91006396	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	05/20/2025	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	4083	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																																							
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Manufacturer Test Comments	None																																						

Certification Summary Information Report

Test Group		TFMXT01.52X4			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	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0050	--	1.03	--	0	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0096	--	--	--	--	--	0.010	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0046	--	--	--	0	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0050	--	1.03	--	0	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0096	--	--	--	--	--	0.010	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0046	--	--	--	0	--	0.005	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	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF
Test #	TFMX91006395	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	05/20/2025	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	4107	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)	598.9983521	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	331.0310059	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0020035	--
CO (Carbon Monoxide)	0.2146402	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-4.6530285	--
DT-EER (Drive Trace Energy Economy Rating)	-1.6752266	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.8984995	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0045804	--
N2O (Nitrous Oxide)	0.0003098	--
HC-NM (Non-methane Hydrocarbon)	0.0016034	--
NMOG (Non-methane organic gases)	0.0016515	--
PM (Particulate Matter)	0.0001816	--
HC-TOTAL (Total Hydrocarbon)	0.0035442	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	390.6185913	--

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		TFMXT01.52X4				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	0.0002	--	--	--	0	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0002	--	--	--	0	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF																																	
Test #	TFMX10090428	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	03/28/2025	Fuel	N/A																																	
Fuel Batch ID	373-B	Fuel Calibration Number	104																																	
Vehicle Class	N/A	DF Type	Mfr. Determined																																	
Verify Test Lab ID	APTL																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	3885	Odometer Units	M																																	
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																																	
State of Charge Delta	--																																			
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																	
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Manufacturer Test Comments	--																																			

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	104
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/27/2025
Fuel Batch Calibration Effective Date	03/27/2025	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	10.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17882
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	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	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	375-B	Fuel Calibration Number	64
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	03/25/2025
Fuel Batch Calibration Effective Date	03/25/2025	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF
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 (%)	10.1	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17918
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.826	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		TFMXT01.52X4			Evaporative/Refueling Family		TFMXR0125GDF		
Consolidated List of Standards									
Exhaust Standards									
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 SULEV30		
Fuel		Gasoline			Test Procedure		US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	0	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 SULEV30		
Fuel		Gasoline			Test Procedure		HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	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		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	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		TFMXT01.52X4			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			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	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

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	--	--	--	--	--	--	0	1.0
150,000 miles	CO-COMP	--	--	--	--	--	1	--	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0	0.030
150,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group		TFMXT01.52X4			Evaporative/Refueling Family			TFMXR0125GDF	
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 SULEV30	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	1.0
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.070
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.001
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	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 SULEV30	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	12.5
Evaporative/Refueling Standards									
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		TFMXT01.52X4		Evaporative/Refueling Family		TFMXR0125GDF	
Evaporative/Refueling Family		TFMXR0125GDF		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	0.002		
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		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		
Evaporative/Refueling Family		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		
Evaporative/Refueling Family		TFMXR0125GDF		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	0.0000		

Certification Summary Information Report

Test Group		TFMXT01.52X4		Evaporative/Refueling Family		TFMXR0125GDF	
Evaporative/Refueling Family		TFMXR0125GDF		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	0.0000		
Evaporative/Refueling Family		TFMXR0125GDF		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	0.000		
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 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0000		

Certification Summary Information Report

Test Group		TFMXT01.52X4	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 Region					

Certification Summary Information Report

Test Group		TFMXT01.52X4	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		TFMXT01.52X4	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.

Statement of Compliance

Statement of Compliance for Test Group (TFMXT01.52X4)

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 onroad 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

12.00.01.00 Common Family Parameters – Test Group TFMXT01.52X4

Vehicle Program: Bronco Sport 1.5L GTPFDI GPF

<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 (97 Ron)	181 @ 6000
SAE net torque ft-lb @ RPM (97 Ron)	200 @ 2500

<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
	TWC+GPF
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 - TFMXT01.52X4

Certification Code	Exhaust Calibration	Evaporative Calibration	Application	Transmission	Leak Check	Vehicle
TCHDCRNC0002	TCHDCRNC05	TFMXR0125GDF	50S (CAL)	A/T	0.020	1.5L Ford Bronco Sport

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: 860/950 rpm	
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 (50RPM)	Y	NVH Improvement
High auxiliary loads	N	Belt tensioner durability on BiSG and HV Motor cooling
Eco Idle Feature (Park/Neutral)	N	Raise idle speed to reduce fuel consumption and engine off time during Park/Neutral state

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

FUEL

Fuel Injector (DI)	Signal from PCM	Fuel Flow	N/A	Static Flow Rate: 110 mg/stroke
Fuel Injector (PFI)	Signal from PCN	Fuel Flow	N/A	(697.8 g/min)
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	1450-5000 PSI
Fuel Pump	Signal from PCM	Fuel Flow	N/A	55-80 PSI
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

Open loop enrichment for driver torque demand	Throttle Position or Pedal Position or Engine LOAD, and Engine RPM	Air-Fuel Ratio (LAMBSE)	Protection against damage or accident; provides additional power under extended torque demand	See Section 16.00.05.00 for air-fuel calibration (LAMBSE) in function "ol_lam_pwr_a_m" if accelerator pedal is greater than "FN311P" (90%) for "ol_tm_pwr_dly_a_m" seconds. Otherwise, open loop target, "OL_LAM_DES" is 1.00 (stoich). * and the entry conditions in function "FN311P".
Open Loop Delay Timers	Time and Gear	Delay open loop fuel	Allows time for downshift; limit enrichment to unusual conditions	See Section 16.00.05.00 for delay time calibration "FN1311P" and the maximum open-loop count-up time, "ol_tm_pwr_dly_a_m"
Open Loop Enrichment Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either "CAT_MAX" or "CAT_MAX_LO" and "CAT_MAX_HI" and the time delay on CAT_MAX_LO, "CAT_TMR_THRES"

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
Open Loop Enrichment EGO Protection	Inferred Oxygen Sensor	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred EGO temperature to trigger enrichment,

Test Group: TFMXT01.52X4

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Issued: 07/02/2025

Revised:

	Temperature			"FEGO_MAX"
Open Loop Enrichment Engine/Exhaust Manifold Protection	Inferred Exhaust Manifold Flange Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred exhaust flange temperature, "FLN_MAX" or "FLN_MAX_LO" and "FLN_MAX_HI" and the time delay on FLN_MAX_LO, "FLN_TMR_THRES"
Open Loop Enrichment Following Deceleration Fuel Shut-Off (DFSO)	Injector state, inferred catalyst O ₂ stored, and CMS voltage	Air-Fuel Ratio (LAMBSE)	Substantially demonstrated on FTP	See Section 16.00.05.00 for air-fuel ratio utilized following fuel shut-off event, "LAM_REACT"
CRANKCASE				
Crankcase Ventilation Oil Separator Assembly	Manifold Vacuum	Air Flow to Engine	Operates in FTP	17.9 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	Justification ¹	Calibration
VCT Control Strategy				
Cam timing based on requested torque and percent torque	Requested Torque, Percent Torque, Engine Speed, and Load	Cam Phase Timing	VCT optimized for fuel efficiency within constraints of combustion stability, driveability, emissions, and vacuum limitations	See Section 16.00.05.00 for "hdfcfg_ix_fe_v" Best FE mapped points in combination with "FNHDFX_BEST_FE_DIST" (eng_spd, load) and "FNHDFX_BEST_DRIVE_DIST" (eng_spd, pct_load) distances.
Cam Timing Limitation for Combustion Stability	Requested Torque and Engine Speed	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"
Cam Actuator Limitation for Oil Temperature	Oil Temperature; or Time-since-start and ECT-at-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "FNHDFX_FNEOT_ADV_INT" and "FNHDFX_FNEOT_EXH"
Cam Actuator Limitation for start-up	Engine Coolant Temp. at start and time-since-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "fnvct_enable_delay" and "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"
Cam Retard Limitation under Hi Torque Demand n	Engine Speed and Requested Torque	Cam Phase Timing or Throttle Position	Protection against damage or accident under high torque demand	See Section 16.00.05.00 for Contained within the Best FE, Best Drv noted above and the Optimal Performance "FN_HDFX_OP_IVO" and "FN_HDFX_OP_EVC" calibrations.
Cam Actuator Limitation for ACT Effects	Air Charge Temperature	Cam Phase Timing	Protection against damage or accident by maintaining combustion stability	See Section 16.00.05.00 for "FNHDFX_VCTLIM_EXH"

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	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: TFMXT01.52X4

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
BRONCO SPORT 4WD, BRONCO SPORT SASQUATCH	Initial	TCHDCRNC0002	TCHDCRNC05	PT1PA-12A650- AC	07/02/2025

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

Engine Family: TFMXT01.52X4

2026MY1.5L BRONCO

<u>Part Name</u>	<u>Part Number</u>	
Camshaft Position Sensor Assembly	P2GA-12K073-BA P2GA-12K073-BB	(alt)
Catalyst	PZ11-5E211-RF TZ11-5L230-AB	
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	
Exhaust Pressure Sensor - Gas	S1P1-5H209-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	
Mass Air Flow Sensor	JX6A-12B579-EB	

2026MY TEST VEHICLE REQUIREMENTS

	Exhaust Data Vehicles	Evaporative Data Vehicles
Test Group	TFMXT01.52X4	SFMXT01.52X2
Evap Emission Family	TFMXR0125GDF	SFMXR0125GDF
Displacement	1.5L	1.5L
Engine Code	TCHDCRNC0000	SCHDCRNA0002
Fuel Tank Code	P2 (16.7 gal)	P2 (16.7 gal)
Exhaust Control System	TWC/TWC+GPF/WR-HO2S/HO2S/TC/CAC/EGR/EGR/DFI/SFI	TWC/WR-HO2S/HO2S/TC/CAC/EGR/EGR/DFI/SFI
Model	Bronco Sport Sasquatch	Bronco Sport Sasquatch
Equivalent Test Weight	4000	4000
Curb Weight	3738 lbs	3733 lbs
GVWR	4810 lbs	4810 lbs
THP	14.38	14.4
DPA	f0 = 30.33	f0 = 30.44
	f1 = 0.1863	f1 = 0.1837
	f2 = 0.02727	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	THD1-1.5-J-180	SHD1-1.5-J-989
Configuration Number	0	1
Model Year	2026	2025

Test Group: TFMXT01.52X4

Issued: 06/13/2025

Revised:

12.00.05.00

Vehicle Description Report

Test Group: TFMXT01.52X4

ID Number	5290667	5290669
Displacement	1.5	1.5
Cert Code	TCHDCRNC0002	TCHDCRNC0002
Fuel Tank(s)	P2	P2
Carline	BRONCO SPORT 4WD	BRONCO SPORT SASQUATCH
Wheel Configuration	Standard	Standard
Body Style	4 Door	4 Door
Wheelbase	105.1	105.1
Transcode Combo	GM381S	GM381S
Curb Weight	3503	3749
ETW	3750	4000
Loaded Weight LVW	3803	4049
ALVW-ETW	4000	4250
Adj. Loaded Weight	4092	4280
GVWR	4680	4810
GCWR	6070	6320
Min Axle Ratio	3.8	3.8
Max Axle Ratio	3.8	3.8
Min N/V Ratio	28.4	28.1
Max N/V Ratio	28.6	28.1
Emission Vehicle Class	LDT2	LDT2
Drive Code	Part-time 4-Wheel Drive	4-Wheel Drive
Trans Type	Automatic	Automatic
Calibration Application	50ST	50ST
Min Tire Size	225/60R18 - 28.4	P235/65R17 - 28.1
Max Tire Size	225/65R17 - 28.6	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	2117
DAW Empty Tank	2014	2095



SECTION 14

Request for Certification



Vehicle Homologation & Compliance
Environmental & Safety Compliance

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

September 17, 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 truck (LDT) contained in Ford's 50 states (Federal/CA) test group TFMXT01.52X4 and evaporative emission family TFMXR0125GDF. Federal Tier 3 E10 Regular Gasoline fuels were used for exhaust emission tests. Tier 3 E10 Regular Gasoline was used for evaporative emission tests.

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

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

This test group also meets the Cold NMHC Family Emission Limit (FEL) of 0.3 gm/mi as part of the compliance plan to meet the corporate fleet average cold NMHC Federal standards. In addition, the SFTP NMOG + NOX Composite and Highway standard value is 0.070 gm/mi at 150K. For CO Composite the standard value is 4.2 gm/mi at 150K. The PM standard value for US06 test is 0.006 gm/mi at 150K.

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	Hot Soak + 3-day diurnal	Running Loss	ORVR	Bleed Test HC Total
Evaporative Standards TFMXR0125GDF	150k	0.400 grams per test	0.400 grams per test	0.05 grams/mile	0.20 grams /gallon	0.020 grams / test

The Fuel Spitback standard for this test group is 1.0 gram/test.

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 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



Vehicle Homologation & Compliance
Environmental & Safety Compliance

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

September 17, 2025

Ms. Robin U. Lang , Chief
Emissions Compliance, Automotive Regulations and Science Division
Air Resources Board
4001 Iowa Ave.
Riverside, CA 92507

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2026 model year Gasoline powered light duty truck (LDT) contained in Ford's 50 states (Federal/CA) test group TFMXT01.52X4 and evaporative emission family TFMXR0125GDF.

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 Fuel. The LEV 3 FTP certification exhaust emission standards and In-Use emission standards applicable to this test group for vehicles offered in California are:

Certification and In-Use FTP Standards (g/mi)	Useful Life	NMOG + NOX	CO	PM	HCHO
LEV III SULEV 30	150K	0.030	1.0	0.001	0.004

The LEV III certification and in-use evaporative emission standards applicable to this test group are:

LEV III	Useful Life	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	Bleed Test HC Total
Evaporative Standards TFMXR0125GDF	150k	0.400 grams per test	0.400 grams per test	0.05 grams/mile	0.20 grams /gallon	0.020 grams / test

The Fuel Spitback standard for this test group is 1.0 gram/test.

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

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. This application has also been prepared in accordance with the California Air Resources Board, Final Regulation Order, Amendments to Sections 1960.1, 1960.5, 1961 and 1962 Title 13, California Code of Regulations (As amended August 4, 2005). Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14), including the provisions of 40 CFR Parts 85, 86 and 600, Ford requests that an Executive Order be issued for the LDT test group listed in this Application for Certification.

Please contact David Perez at dperez92@ford.com, if you have any questions regarding this submission.

Sincerely

DocuSigned by:

Lawrence H. Merritt, Jr.

DE6ED47495AC46B

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

Cc: M. Desai
R. Uyehara



SECTION 15

Other Information

15.00.00.00



CCAPS Manual Payment Request

(North America)

REF NO: 306173

NAME AND ADDRESS OF PAYEE

Environmental Protection Agency-MVECP

U.S. Bank - Government Lockbox 979032

1005 Convention Plaza SL-MO-C2-GL St. Louis, MI 63101

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			296,451.00	N
TOTAL										296,451.00	

Pre-requisites for Payment :

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

TYPE OF INVOICE:

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

Legal Matters- Environmental Fees

Requestor

Operations Approval - Receipt of Service

Preparer/Requestor	CDS ID	Sign	Date	Approver	CDS ID	Sign	Date
	TOLIVER		1/31/2025		LMERRITZ		1/31/2025

DocuSigned by: DF6ED4749EAC46B...

Approvals per Corporate Approval Authorities - Method of Payment

Payment Item is on Uses of Manual Payment Requests				Payment Item is not on Uses of Manual Payment Requests			
Finance LL5+ or Plant Controller (LL6) Unlimited	CDS ID	Sign	Date	Finance LL4+ Unlimited	CDS ID	Sign	Date
Finance LL6 < \$250,000	PBLANCAS		1/31/2025	Finance LL5 < \$25,000			

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

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

Engine Family / Evaporative Family / Test Group *

TFMXT01.52X4

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 PEREZ 1.5L BRONCO SPORT AWD

Tracking Information

Pay.gov Tracking ID: 27L8GJNT

Agency Tracking ID: 76949264348

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 12/31/2022

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.



SECTION 16

Confidential Information



SECTION 17

California ARB Requirements

TFMXT01.52X4

FoMoCo	Ford Motor Company VEHICLE EMISSION CONTROL INFORMATION
Conforms to regulations: 2026 MY	
U.S. EPA: T3B30 LDT2	
OBD: CA OBD II Fuel: Gasoline	
California: SULEV30 LDT	
OBD: CA OBD II Fuel: Gasoline	
TWC/TWC+GPF/WR-HO2S/HO2S/TC/CAC/EGR/EGRC/DFI/SFI	
No adjustments needed.	
1.5L-Group: TFMXT01.52X4 Evap: TFMXR0125GDF	
▽ TW7E-9C485- L T L	



SECTION 18

Revisions

18.00.00.00

APPLICATION REVISIONS

TFMXT01.52X4

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