STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
CALIFORNIA AIR RESOURCES BOARD

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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	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_APF	Model Year 2026	TFMXV05.2VEZ	Light-duty vehicle test group and	Base	$ 48,447.00

				medium-duty vehicle test group		

Total Due	$ 1,295,952.00

I, WADE WITTE (Feb 6, 2025 18:50 EST) , 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 CH_4 - 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 N_2O - 0.010 g/mi SFTP - 0.070 g/mi NMOG+NOx
Carlines Covered:	BRONCO SPORT 4WD BRONCO SPORT SASQUATCH

Vehicles Tested

Exhaust Emission Vehicle:	
THD1-1.5-J-180/Config 0	
FTP (E10) TN	TFMX91006397
HWY (E10) TN	TFMX91006396
US06 (E10) TN	TFMX91006395
SC03 (E10) TN	TFMX10090428
Cold CO (E10) TN	TFMX10090430

Evaporative Emission Vehicle:	
SHD1-1.5-J-989/Config 1 (TFMXR0125GDF)	
2Day TN	SFMX10087244
3Day TN	SFMX10087231
Linking TN	SFMX10087229
ORVR	SFMX10087246
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

Part 2 Application Index

(Running change updates)

SECTION 2

Durability Group Description

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

SECTION 3

Evaporative/Refueling Family Description

03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Family Name: TFMXR0125GDF

2026MY 1.5L GTPFDI Bronco Sport

Emission Component		Sensed Parameter	Controlled Parameter	Justification	Calibration Specification
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**	09/19/2025 01:36:15 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)**	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	**CAP2000 Conditional Certificate?**	N/A
Independent Commercial Importer?	--	**Alternative Fuel Converter Certificate?**	--
SFTP Federal Composite Compliance Identifier	Tier 3	**SFTP Tier 2 Composite CO Option**	No
SFTP LEV-III Composite Compliance Indicator	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	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
Ford Motor Company	1 - Ford	25 - BRONCO SPORT 4WD	California + CAA Section 177 states	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

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 eqipped	**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	**Creeper Gear**	No

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	30.78	-0.0241	0.02591	13.81	-0.3184	0.02722	12.6
Cold CO	30.78	-0.0241	0.02591	13.81	-0.3184	0.02722	N/A
US06	31.4	0.1163	0.02944	13.41	0.01323	0.02907	N/A

Emission Control Device Comments T3B30/SULEV30, Cold Bin 3, PM3, SFTP 0.070

Manufacturer Test Vehicle Comments Ford Escape

Test #	**LFMX10058649**	**Test Procedure**	**65 - Evap Canister Bleed Test**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/15/2019	**Fuel**	Gasoline
Fuel Batch ID	--	**Fuel Calibration Number**	--
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	9999	**Odometer Units**	M
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL (Total Hydrocarbon)	0.0038	--

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL	0.0038	0	0.004	0.020	Pass
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

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 eqipped	**Aged Emission Components**	150,000 (mi)
Curb Weight (lbs)	3733	**Equivalent Test Weight (pounds)**	4000
GVWR (lbs)	4810	**N/V Ratio**	28.1
Axle Ratio	3.8		
Transmission Type	Automatic	**# of Transmission Gears**	8
Transmission Lockup	Yes	**Creeper Gear**	No

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	30.44	0.1837	0.02749	7.14	0.0886	0.02622	14.4
Cold CO	30.44	0.1837	0.02749	7.14	0.0886	0.02622	N/A
US06	30.44	0.1837	0.02749	7.14	0.0886	0.02622	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments BRONCO SPORT SASQUATCH

Certification Summary Information Report

Test Group	TFMXT01.52X4	**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

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	294	999
Optional Carbon-Related Exhaust Emissions	294	999

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

Manufacturer Test Comments --

Test #	**SFMX10087231**	**Test Procedure**	**34 - Federal fuel 3-day evap**
Exhaust Test # for this Evap Test	SFMX10087229	**Test Fuel Type**	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	07/16/2024	**Fuel**	Gasoline
Fuel Batch ID	--	**Fuel Calibration Number**	--
Vehicle Class	N/A	**DF Type**	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	7410	**Odometer Units**	K
4WD Test Dyno	No	**Diesel Adjustment Factor Usage**	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	**Road Speed Fan Usage**	No

Test Results

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

Manufacturer Test Comments --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2929	0.0000	0.293	0.400	Pass
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

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.3523	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3523	--

Manufacturer Test Comments 2 Day EVAP Measured NMOG

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

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.016	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.016	--

Manufacturer Test Comments ORVR test

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.016	0.000	0.02	0.20	Pass
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

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 eqipped	**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	**Creeper Gear**	No

Certification Summary Information Report

Test Group	TFMXT01.52X4	**Evaporative/Refueling Family**	TFMXR0125GDF

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
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

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/NMHC 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

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0027157	--
CO (Carbon Monoxide)	0.1538454	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.3894862	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3471962	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.1386911	--
MFR FE (Manufacturer Fuel Economy)	38.8245392	--
NOX (Nitrogen Oxide)	0.0045623	--
N2O (Nitrous Oxide)	0.0013281	--
HC-NM (Non-methane Hydrocarbon)	0.0048153	--
NMOG (Non-methane organic gases)	0.0049598	--
HC-TOTAL (Total Hydrocarbon)	0.007446	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	223.0885315	--

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/NMHC 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

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.002065	--
CO (Carbon Monoxide)	0.017933	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.278865	--
DT-EER (Drive Trace Energy Economy Rating)	0.310935	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.444978	--
MFR FE (Manufacturer Fuel Economy)	22.6	22.6
NOX (Nitrogen Oxide)	0.001952	--
HC-NM (Non-methane Hydrocarbon)	0.001623	--
NMOG (Non-methane organic gases)	0.001672	--
HC-TOTAL (Total Hydrocarbon)	0.00359	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	386	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	386.3	--

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	**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
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**	--

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

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**	0.754
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**	--

Certification Summary Information Report

Test Group	TFMXT01.52X4	**Evaporative/Refueling Family**	TFMXR0125GDF

Consolidated List of Standards

Exhaust Standards

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	**Standard Level**	Federal Tier 3 Bin 30
Fuel	Gasoline	**Test Procedure**	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

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

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**	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

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**	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

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** 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 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 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

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**	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	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**	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

Certification Summary Information Report

Test Group	TFMXT01.52X4	**Evaporative/Refueling Family**	TFMXR0125GDF

Evaporative/Refueling Family	TFMXR0125GDF	**Cert Region**	Federal
Cert/In-Use Code	Both	**Standard Level**	Federal Tier 3 Evap
Test Procedure	Federal Fuel Running Loss		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.002

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

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	2-day evap		

Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.000

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

Test Group Information	
Vehicle/Engine Class	LDT2
Vehicle Fuel Category	*Single Fuel*
Operating Fuel 1	*Gas*

Engine Displacement (liters)	1.5L
SAE net HP @ RPM (97 Ron)	181 @ 6000
SAE net torque ft-lb @ RPM (97 Ron)	200 @ 2500

Emission Control System:	
Air Aspiration Method*	*Turbocharged (TC)*
Charge Air Cooler Type* (TG-51)	*Air*
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_2S)*	YES
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO2S)*	YES
Feedback Sensor Configuration	WR-HO2S, HO2S

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 ^{O}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
ELECTRONICS – PCM[2]				
FUEL				
Fuel Injector (DI)	Signal from PCM	Fuel Flow	N/A	Static Flow Rate: 110 mg/stroke (697.8 g/min)
Fuel Injector (PFI)	Signal from PCN	Fuel Flow	N/A	Static Flow Rate: 139 g/min
Regulated Fuel Pressure (DI)	Signal from PCM	Fuel Pressure	N/A	1450-5000 PSI
Regulated Fuel Pressure (PFI)	Signal from PCM	Fuel Pressure	N/A	55-80 PSI
Fuel Pump	Signal from PCM	Fuel Flow	N/A	142.7-201.2 lph
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	Throttle Diameter: 55 mm
Fuel System Control Strategy[2]				
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,

	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

Part Name	Part Number	
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/EGRC/DFI/SFI	TWC/WR-HO2S/HO2S/TC/CAC/EGR/EGRC/DFI/SFI
Model	Bronco Sport Sasquatch	Bronco Sport Sasquatch
Equivelent 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

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.
DF6ED4749EAC46B...

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

Cc: M. Desai
R. Uyehara

SECTION 15

Other Information

CCAPS Manual Payment Request

(North America)

REF NO: 306173

NAME AND ADDRESS OF PAYEE	Employee	Ex-Employee / Board of Director	Mail Attachments	Separate Check	Special Handling
Environmental Protection Agency-MVECP				Y	
U.S. Bank - Government Lockbox 979032	Supplier Code	CCAPS Plant Code	Due Date	Currency	Amount
1005 Convention Plaza SL-MO-C2-GL St. Louis, MI 63101	GXHSA	10	ASAP	US	296,451.00

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 :

1. Requestors or Approvers to ensure the following
   - Receipt of Service
   - Price Validation
   - Supported by invoice or other documentation
2. Check if payment item is on Uses of Manual Payment Requests
3. For Finance Approval follow Corporate Approval Authorities - Method of Payment

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

Requestor

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

Operations Approval - Receipt of Service

	CDS ID	Sign	Date
Approver	LMERRIT2	DocuSigned by: Lawrence Merritt DF6ED4749EAC46B...	1/31/2025

Approvals per Corporate Approval Authorities - Method of Payment

Payment Item is on Uses of Manual Payment Requests

	CDS ID	Sign	Date
Finance LL5+ or Plant Controller (LL6) Unlimited Finance LL6 < $250,000	PBLANCAS	DocuSigned by: Patricia Blancas Ruiz 98D37B2D5DA0498...	1/31/2025

Payment Item is not on Uses of Manual Payment Requests

	CDS ID	Sign	Date
Finance LL4+ Unlimited 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.

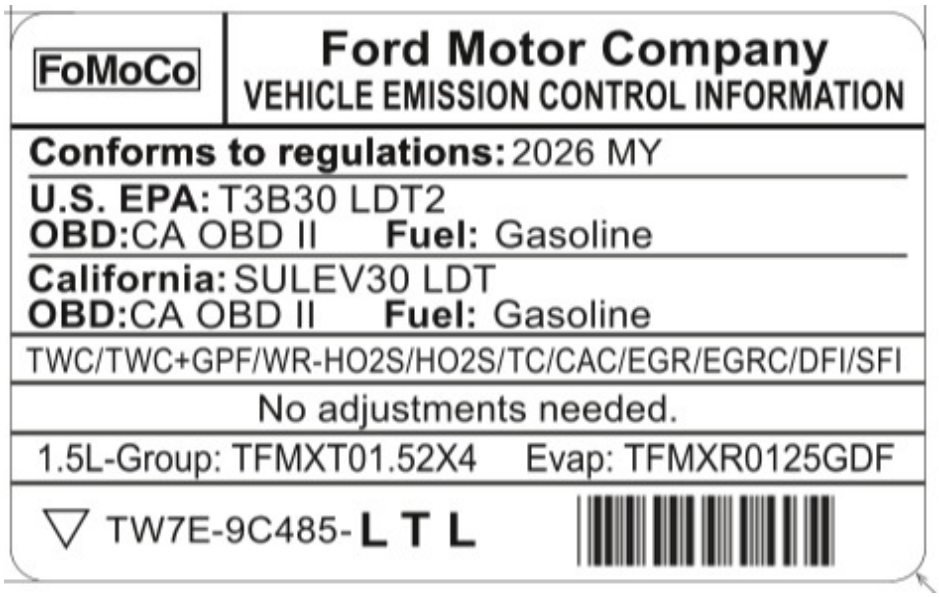
SECTION 16

Confidential Information

SECTION 17

California ARB Requirements

TFMXT01.52X4



SECTION 18

Revisions

APPLICATION REVISIONS

TFMXT01.52X4

NO.	DATE	PAGE(S)	DESCRIPTION