

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF
Certificate Number	TFMXT01.52X4-062	CARB Executive Order #	--
Certificate Issue Date	10/23/2025	Certificate Revision Date	--
Certificate Effective Date	10/23/2025	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	09/19/2025 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	02/13/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	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
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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	California + CAA Section 177 states	4-Wheel Drive	Automatic	8	Yes
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	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	
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"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	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	Creeper 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 --

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	0.02	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0038	0	0.004	0.02	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X4			Evaporative/Refueling Family			TFMXR0125GDF
Dynamometer Coefficients:							
	Target Coefficients			Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	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
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	294	999
Optional Carbon-Related Exhaust Emissions	294	999

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

Manufacturer Test Comments --

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	0.293	0.4	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2929	0	0.293	0.4	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	0.352	0.4	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3523	0	0.352	0.4	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	0.002	0	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0	0.002	0	0.05	Pass

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF
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Test #	SFMX10087246	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	SFMX10087229	Test Fuel Type	58 - Tier 3 E10 Regular Gasoline (10 RVP-FFV ORVR Only)
Test Date	07/22/2024	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	7438	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

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

Manufacturer Test Comments ORVR test

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.016	0	0.02	0.2	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.016	0	0.02	0.2	Pass

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	30.33	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	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	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
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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	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	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	0.005	--	1.03	--	0	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0096	--	--	--	--	--	0.01	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	0.005	--	1.03	--	0	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0096	--	--	--	--	--	0.01	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	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0002	--	--	--	0	--	0	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	373-B	Fuel Calibration Number	89
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/28/2024
Fuel Batch Calibration Effective Date	06/28/2024	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17855
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	28637	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/26/2021
Fuel Batch Calibration Effective Date	08/26/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17894
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	375-B	Fuel Calibration Number	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
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Consolidated List of Standards

Exhaust Standards

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

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			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	

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	

Evaporative/Refueling Standards									
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		

Certification Summary Information Report

Test Group	TFMXT01.52X4		Evaporative/Refueling Family	TFMXR0125GDF	
Evaporative/Refueling Family	TFMXR0125GDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	Federal fuel 3-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.400	0
Evaporative/Refueling Family	TFMXR0125GDF		Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)	
Cert/In-Use Code	Both		Standard Level		
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.400	0
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	Federal	
Cert/In-Use Code	Both		Standard Level	Federal Tier 3 Evap	
Test Procedure	2-day evap				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0
Evaporative/Refueling Family	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

Certification Summary Information Report

Test Group	TFMXT01.52X4	Evaporative/Refueling Family	TFMXR0125GDF		
Evaporative/Refueling Family	TFMXR0125GDF	Cert Region	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	Federal fuel refueling test (ORVR)				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	0.20	0
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
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 California LEV-III Zero Evap (Option 2)		
Cert/In-Use Code	Both	Standard Level			
Test Procedure	Evap Canister Bleed Test				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0

Certification Summary Information Report

Test Group	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	