

## Certification Summary Information Report

<b>Manufacturer</b>	Ford Motor Company	<b>Manufacturer Code</b>	FMX
<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Certificate Number</b>	TFMXT03.03V7-067	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	11/24/2025	<b>Certificate Revision Date</b>	--
<b>Certificate Effective Date</b>	11/24/2025	<b>Conditional Certificate</b>	No
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	11/03/2025 08:33:52 AM
<b>Model Year</b>	2026		

  

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

  

<b>Hybrid Indicator</b>	No		
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	--
<b>Fuel Cell Indicator</b>	--	<b>EPA Vehicle Class</b>	LDT4
<b>Federal Clean Fuel Vehicle</b>	No	<b>Federal Clean Fuel Vehicle Standard</b>	--
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No
<b>Durability Group Name</b>	TFMXGPGNND4A	<b>Durability Group Equivalency Factor</b>	1.0
<b>Reduced Fee Test Group</b>	No	<b>Certification Region Code(s)</b>	FA, CA
<b>Complies with HD GHG 2b/3 regulations?</b>	No		
<b>Introduction into Commerce Date</b>	02/20/2026	<b>CAP2000 Conditional Certificate?</b>	No
<b>Independent Commercial Importer?</b>	No	<b>Alternative Fuel Converter Certificate?</b>	No
<b>SFTP Federal Composite Compliance Identifier</b>	Tier 3	<b>SFTP Tier 2 Composite CO Option</b>	No
<b>SFTP LEV-III Composite Compliance Indicator</b>	Yes		
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	TFMXT03.0JPC
<b>Test Group OBD Compliance Level</b>	Partial - with deficiencies and penalty	<b>Number of Test Group OBD Deficiencies</b>	3
<b>OBD Deficiencies Comments</b>	--		
<b>Mfr Test Group Comments</b>	E10 City Litmus Value = 13.6 mpg, City Litmus Threshold = 13.2 mpg, E10 HWY Litmus Value = 15.0 mpg, HWY Litmus Threshold = 15.3 mpg.		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG				
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	Update for Correction	<b>Submission/Correction Date</b>	09/18/2025 02:05:24 PM				
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline				
<b>Multiple Fuel Storage</b>	--						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Other	<b>Fuel Tank Material Description</b>	Plastic				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	Yes	<b>Air Intake System Vapor Storage Device Description</b>	AIS Hydrocarbon Trap				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	See comments below				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	140	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	1	<b>Bleed Canister Total Working Capacity (grams)</b>	1				
<b>Mfr Evaporative/Refueling Family Comments</b>	1 X 2.2L HA 3-port Rect. + 1 X 0.065L Bleed						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	Yes						
<b>Canister Bleed Test Indicator</b>	Yes	<b>Applicability of Evaporative Canister Bleed Test</b>	50 State				
<b>Evaporative Canister Bleed Test Comments</b>	--						
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--				
<b>CARB Fuel Only (Rig) Test Comments</b>	--						
<b>Leak Family Name</b>	<b>Applicability of Leak Family Requirements</b>	<b>Leak Family Standard (inches)</b>	<b>Leak Family Description</b>				
TFMXR0140NDG-001	50 State	0.02	--				
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
Ford Motor Company	1 - Ford	28 - BRONCO RAPTOR 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	28 - BRONCO RAPTOR 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
<b>Engine Description</b>							
<b>Hybrid Type</b>	--	<b>Hybrid Description</b>	--				
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	3.0L GTDI V6				
<b>Engine Block Arrangement</b>	V-shaped engine	<b>Mfr Engine Block Arrangement Description</b>	V-6				
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	SAE 5W-30 / ILSAC GF-7				
<b>Number of Cylinders/Rotors</b>	6	<b>Mechanically Variable Compression Ratio Indicator</b>	N				

## Certification Summary Information Report

Test Group	TFMXT03.03V7	Evaporative/Refueling Family	TFMXR0140NDG	
<b>After Treatment Device(s) (ATD)</b>				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
3	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
4	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
<b>Mfr After Treatment Device (ATD) Comments</b>	TWC			
<b>Direct Ozone Reduction (DOR) Device</b>	Not Equipped			
<b>Mfr Emission Control Device Comments</b>	--			
<b>Engine Configuration Number 1</b>				
<b>Engine Displacement (liters)</b>	3.0	<b>Engine Rated Horsepower</b>	418	
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2	
<b>Air Aspiration Method</b>	Turbocharged	<b>Number of Air Aspiration Devices</b>	2	
<b>Air Aspiration Device Configuration</b>	Parallel	<b>Charge Air Cooler Type</b>	Air	
<b>Air Aspiration Drive Method(s)</b>	Mechanical			
<b>Cylinder Deactivation</b>	No			
<b>Cylinder Deactivation Description</b>	--			
<b>Variable Valve Timing</b>	Yes			
<b>Variable Valve Timing System Description</b>	Intake/Exhaust, Oil Pressure Actuated VCT			
<b>Variable Valve Lift?</b>	No			
<b>Variable Valve Lift System Description</b>	--			
<b>Number of Knock Sensors</b>	2	<b>Number of Air/Fuel Sensors</b>	4	
<b>Air/Fuel Sensor # 1 Type</b>	Heated air fuel	<b>Air/Fuel Sensor # 1 Description</b>	--	
<b>Air/Fuel Sensor # 2 Type</b>	Heated air fuel	<b>Air/Fuel Sensor # 2 Description</b>	--	
<b>Air/Fuel Sensor # 3 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 3 Description</b>	--	
<b>Air/Fuel Sensor # 4 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 4 Description</b>	--	
<b>Mfr Air/Fuel Sensor Comments</b>	--			
<b>Exhaust Gas Recirculation</b>	No	<b>Cooled Exhaust Gas Recirculation</b>	No	
<b>EGR Type</b>	Electronic/Electric	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--	
<b>Closed Loop Air Injection System</b>	No			
<b>Air Injection Type</b>	Not Applicable	<b>Air Injection Type if 'Other'</b>	--	
<b>Mfr Engine Configuration Comments</b>	Bronco Raptor 97 RON Rated HP/Torque			

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG							
<b>Engine Configuration Number 2</b>										
<b>Engine Displacement (liters)</b>	3.0	<b>Engine Rated Horsepower</b>	405							
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2							
<b>Air Aspiration Method</b>	Turbocharged	<b>Number of Air Aspiration Devices</b>	2							
<b>Air Aspiration Device Configuration</b>	Parallel	<b>Charge Air Cooler Type</b>	Air							
<b>Air Aspiration Drive Method(s)</b>	Mechanical									
<b>Cylinder Deactivation</b>	No									
<b>Cylinder Deactivation Description</b>	--									
<b>Variable Valve Timing</b>	Yes									
<b>Variable Valve Timing System Description</b>	Intake/Exhaust, Oil Pressure Actuated VCT									
<b>Variable Valve Lift?</b>	No									
<b>Variable Valve Lift System Description</b>	--									
<b>Number of Knock Sensors</b>	2	<b>Number of Air/Fuel Sensors</b>	4							
<b>Air/Fuel Sensor # 1 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 1 Description</b>	--							
<b>Air/Fuel Sensor # 2 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 2 Description</b>	--							
<b>Air/Fuel Sensor # 3 Type</b>	Heated air fuel	<b>Air/Fuel Sensor # 3 Description</b>	--							
<b>Air/Fuel Sensor # 4 Type</b>	Heated air fuel	<b>Air/Fuel Sensor # 4 Description</b>	--							
<b>Mfr Air/Fuel Sensor Comments</b>	--									
<b>Exhaust Gas Recirculation</b>	No	<b>Cooled Exhaust Gas Recirculation</b>	No							
<b>EGR Type</b>	Electronic/Electric	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--							
<b>Closed Loop Air Injection System</b>	No									
<b>Air Injection Type</b>	Not Applicable	<b>Air Injection Type if 'Other'</b>	--							
<b>Mfr Engine Configuration Comments</b>	Ranger Raptor 97 RON Rated HP/Torque									
<b>Official Test Numbers</b>										
<b>Test Group Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>	<b>Cold CO</b>	<b>Highway</b>	<b>EPA City Litmus Value</b>	<b>EPA City Litmus Threshold</b>	<b>EPA Highway Litmus Value</b>	<b>EPA Highway Litmus Threshold</b>	<b>CREE Weighting Factor</b>
Gasoline	NFMX10073249	NFMX10073250	NFMX10073255	NFMX10073254	NFMX10073256	16.1	228.2	19.3	286.1	1
<b>SFTP LEV-III Official Test Numbers</b>										
<b>Test Group Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>							
Gasoline	NFMX10073249	NFMX10073250	NFMX10073255							

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG						
<b>Emission Data Vehicle Information</b>									
<b>Vehicle ID / Configuration</b>	301W321 / 0	<b>Manufacturer Vehicle Configuration Number</b>	0						
<b>Original Test Group Name</b>	NFMXT02.31EM	<b>Original Evaporative/Refueling Family</b>	NFMXR0140NDG						
<b>Original Test Vehicle Model Year</b>	2022								
<b>Vehicle Model</b>									
<b>Represented Test Vehicle Make</b>	Ford	<b>Represented Test Vehicle Model</b>	Bronco						
<b>Leak Family Details</b>									
<b>Leak Family Identifier</b>	001	<b>Leak Family Name</b>	NFMXR0140NDG-001						
<b>Drive Sources and Fuel System Details</b>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Drive Source and Fuel#</th> <th style="width: 33%;">Drive Source</th> <th style="width: 33%;">Fuel</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Combustion Engine</td> <td style="text-align: center;">Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
<b>Hybrid Indicator</b>	No								
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--						
<b>Fuel Cell Indicator</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--						
<b>Rechargeable Energy Storage System</b>	--	<b>Rechargeable Energy Storage System, if 'Other'</b>	--						
<b>Off-board charge Capable Indicator</b>	--								
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	1.03						
<b>Odometer Correction Sign</b>	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
<b>Odometer Correction Units</b>	Miles								
<b>Engine Code</b>	MTG1N3NB00	<b>Rated Horsepower</b>	270						
<b>Displacement (liters)</b>	2.3								
<b>Air Aspiration Method</b>	Turbocharged	<b>Air Aspiration Method, if 'Other'</b>							
<b>Number of Air Aspiration Devices</b>	1	<b>Air Aspiration Device Configuration</b>	Single						
<b>Charge Air Cooler Type</b>	Air	<b>Drive Mode While Testing</b>	2-Wheel Drive, Rear						
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	4,000 (mi)						
<b>Curb Weight (lbs)</b>	5136	<b>Equivalent Test Weight (pounds)</b>	5500						
<b>GVWR (lbs)</b>	6120	<b>N/V Ratio</b>	30.2						
<b>Axle Ratio</b>	4.7								
<b>Transmission Type</b>	Semi-Automatic	<b># of Transmission Gears</b>	10						
<b>Transmission Lockup</b>	Yes	<b>Creeper Gear</b>	No						
<b>Dynamometer Coefficients:</b>									
<b>Target Coefficients</b>			<b>Set Coefficients</b>						
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>						
<b>City/Highway/Evap</b>	44.07	0.6921	0.04663						
	20.96	0.5259	0.04582						
			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>						
			26						
<b>Emission Control Device Comments</b>	22MY BETP								

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Manufacturer Test Vehicle Comments</b>	2.3L GTDI Bronco 4X4		
<b>Test #</b>	<b>NFMX10071316</b>	<b>Test Procedure</b>	<b>65 - Evap Canister Bleed Test</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/15/2021	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	5155	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

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

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

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

## Certification Summary Information Report

Test Group	TFMXT03.03V7	Evaporative/Refueling Family	TFMXR0140NDG						
<b>Emission Data Vehicle Information</b>									
Vehicle ID / Configuration	MG11-2.3-J-203 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	MFMXT02.31EM	Original Evaporative/Refueling Family	MFMXR0140NDG						
Original Test Vehicle Model Year	2021								
<b>Vehicle Model</b>									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Bronco						
<b>Leak Family Details</b>									
Leak Family Identifier	001	Leak Family Name	MFMXR0140NDG-001						
<b>Drive Sources and Fuel System Details</b>									
	<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	MTG1N3NB00	Rated Horsepower	270						
Displacement (liters)	2.3								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5136	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6120	N/V Ratio	30.2						
Axle Ratio	4.7								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creeper Gear	No						

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
-------------------	--------------	-------------------------------------	--------------

**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)	
<b>City/Highway/Evap</b>	51.84	0.6755	0.04816	25.85	0.548	0.0465	27.5
<b>Cold CO</b>	51.84	0.6755	0.04816	25.85	0.548	0.0465	N/A
<b>US06</b>	51.84	0.6755	0.04816	25.85	0.548	0.0465	N/A

**Emission Control Device Comments**            T21-0129-01 T3B70 L3B70

**Manufacturer Test Vehicle Comments**        2.3L GTDI Bronco 4X4

## Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>MFMX10067778</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/22/2020	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	54
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	4795	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

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

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
-------------------	--------------	-------------------------------------	--------------

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	461	999
Optional Carbon-Related Exhaust Emissions	461	999

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

**Manufacturer Test Comments**                      NMOG = 1.04 \* NMHCr

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

**Test Results**

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

**Manufacturer Test Comments**                      --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.3375	0	0.338	0.5	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3375	0	0.338	0.5	Pass

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>MFMX10068292</b>	<b>Test Procedure</b>	<b>34 - Federal fuel 3-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	MFMX10067778	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	11/16/2020	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	5126	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

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

**Manufacturer Test Comments**                      --

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.3726	0	0.373	0.5	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3726	0	0.373	0.5	Pass

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
-------------------	--------------	-------------------------------------	--------------

<b>Test #</b>	MFMX10067812	<b>Test Procedure</b>	24 - Federal fuel refueling test (ORVR)
<b>Exhaust Test # for this Evap Test</b>	MFMX10067778	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	12/02/2020	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	5050	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.098	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.098	--

**Manufacturer Test Comments**

ORVR TEST

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.098	0.002	0.1	0.2	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.098	0.002	0.1	0.2	Pass



### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
-------------------	--------------	-------------------------------------	--------------

**Emission Data Vehicle Information**

Vehicle ID / Configuration	NG11-3.0-J-509 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	NFMXT03.03V7	Original Evaporative/Refueling Family	NFMXR0140NDG
Original Test Vehicle Model Year	2022		
<b>Vehicle Model</b>			
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	BRONCO RAPTOR 4WD

**Leak Family Details**

Leak Family Identifier	001	Leak Family Name	NFMXR0140NDG-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	NTG1DDNB02	Rated Horsepower	400
Displacement (liters)	3	Air Aspiration Method, if 'Other'	
Air Aspiration Method	Turbocharged	Air Aspiration Device Configuration	Parallel
Number of Air Aspiration Devices	2	Drive Mode While Testing	2-Wheel Drive, Rear
Charge Air Cooler Type	Air	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	6000
Curb Weight (lbs)	5725	N/V Ratio	28.2
GVWR (lbs)	6850		
Axle Ratio	4.7	# of Transmission Gears	10
Transmission Type	Semi-Automatic	Creeper Gear	No
Transmission Lockup	Yes		

## Certification Summary Information Report

Test Group		TFMXT03.03V7			Evaporative/Refueling Family			TFMXR0140NDG
<b>Dynamometer Coefficients:</b>								
		Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	47.73	0.4815	0.04793	22.32	0.3963	0.04569	25.6	
Cold CO	47.73	0.4815	0.04793	22.32	0.3963	0.04569	N/A	
US06	47.73	0.4815	0.04793	22.32	0.3963	0.04569	N/A	
Emission Control Device Comments	T3B50/ULEV50,SFTP-0.060, PM3, CB4, T3e/L3e							
Manufacturer Test Vehicle Comments	BRONCO RAPTOR (U725) 3.0L GTDI 4X4							

## Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>NFMX10073249</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	11/10/2021	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	61
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	3768	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	519.93345	--
FE BAG 1 (Bag 1 Fuel Economy)	16.61677	16.61677
CO2 BAG 2 (Bag 2 Carbon Dioxide)	520.66857	--
FE BAG 2 (Bag 2 Fuel Economy)	16.61038	16.61038
CO2 BAG 3 (Bag 3 Carbon Dioxide)	485.75095	--
FE BAG 3 (Bag 3 Fuel Economy)	17.80453	17.80453
METHANE (CH4 - Methane)	0.00275	--
CO (Carbon Monoxide)	0.16058	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.70039	--
DT-EER (Drive Trace Energy Economy Rating)	-1.10081	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.2235	--
HCHO (Formaldehyde)	0.000096	--
MFR FE (Manufacturer Fuel Economy)	16.9294	16.9294
NOX (Nitrogen Oxide)	0.00935	--
N2O (Nitrous Oxide)	0.0014	--
HC-NM (Non-methane Hydrocarbon)	0.0057833	--
NMOG (Non-methane organic gases)	0.00619	--
PM (Particulate Matter)	0.0007229	--
HC-TOTAL (Total Hydrocarbon)	0.00834	--

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
-------------------	--------------	-------------------------------------	--------------

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
<b>Carbon-Related Exhaust Emissions</b>	511	999
<b>Optional Carbon-Related Exhaust Emissions</b>	512	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	510.92224	--

**Manufacturer Test Comments**                      NMOG = 1.1 \* NMHCr

## Certification Summary Information Report

Test Group		TFMXT03.03V7				Evaporative/Refueling Family				TFMXR0140NDG		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.16	--	--	--	0.13	--	0.3	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.4	--	--	--	--	--	0.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0.2	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	HCHO	0.0001	--	--	--	0	--	0	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0028	--	--	--	0.002	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0014	--	--	--	0.003	--	0.004	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0062	--	1.1	--	0.0095	--	0.016	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0156	--	--	--	--	--	0.034	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0446	--	--	--	--	--	0.045	0.090	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0094	--	--	--	0.0092	--	0.019	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	OPT-CREE	999	--	--	--	0.3	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0007	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.16	--	--	--	0.13	--	0.3	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.44	--	--	--	--	--	0.4	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	HCHO	0.0001	--	--	--	0	--	0	0.004	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0062	--	1.1	--	0.0095	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0156	--	--	--	--	--	0.034	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0446	--	--	--	--	--	0.045	0.090	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0094	--	--	--	0.0092	--	0.019	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0007	--	--	--	0	--	0.001	0.003	Pass

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

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>NFMX10073251</b>	<b>Test Procedure</b>	<b>52 - Fed. fuel 50 F exh.</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	12/09/2021	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	61
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	3912	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>CO (Carbon Monoxide)</b>	0.29558	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	-0.0518979	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	-0.281998	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	-0.131507	--
<b>HCHO (Formaldehyde)</b>	0.000534	--
<b>NOX (Nitrogen Oxide)</b>	0.00577	--
<b>NMOG (Non-methane organic gases)</b>	0.01586	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.02022	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	493.82246	--

**Manufacturer Test Comments**                      50F NMOG NMOG = 1.1 \* NMHCr

## Certification Summary Information Report

Test Group		TFMXT03.03V7			Evaporative/Refueling Family					TFMXR0140NDG		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	4,000 miles	California LEV-III ULEV50	CO	0.3	--	--	--	--	--	0.3	1.7	Pass
CA	4,000 miles	California LEV-III ULEV50	HCHO	0.0005	--	--	--	--	--	0	0.016	Pass
CA	4,000 miles	California LEV-III ULEV50	NMOG	0.0159	--	--	--	--	--	0.016	999.999	Pass
CA	4,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0217	--	--	--	--	--	0.022	0.100	Pass
CA	4,000 miles	California LEV-III ULEV50	NOX	0.0058	--	--	--	--	--	0.006	999.999	Pass

## Certification Summary Information Report

Test Group	TFMXT03.03V7	Evaporative/Refueling Family	TFMXR0140NDG
<b>Test #</b>	<b>NFMX10073254</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)
<b>Test Date</b>	11/19/2021	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	375-B	<b>Fuel Calibration Number</b>	39
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	3845	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>Test Results</b>			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	678.90411	--	
FE BAG 1 (Bag 1 Fuel Economy)	12.71021	12.71021	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	527.78097	--	
FE BAG 2 (Bag 2 Fuel Economy)	16.48169	16.48169	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	504.07392	--	
FE BAG 3 (Bag 3 Fuel Economy)	17.26398	17.26398	
METHANE (CH4 - Methane)	0.01663	--	
CO (Carbon Monoxide)	0.75254	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.13219	--	
DT-EER (Drive Trace Energy Economy Rating)	0.379174	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.25067	--	
MFR FE (Manufacturer Fuel Economy)	15.70279	15.70279	
NOX (Nitrogen Oxide)	0.01106	--	
HC-NM (Non-methane Hydrocarbon)	0.0727255	--	
NMOG (Non-methane organic gases)	0.07992	--	
HC-TOTAL (Total Hydrocarbon)	0.08926	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	552.59632	--	
<b>Manufacturer Test Comments</b>			
NMOG = 1.1 * NMHC <sub>r</sub>			

## Certification Summary Information Report

Test Group		TFMXT03.03V7			Evaporative/Refueling Family				TFMXR0140NDG			
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 50	CO	0.75	--	--	--	0.04	--	0.8	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.07	--	--	--	0.0069	--	0.1	0.4	Pass
CA	50,000 miles	California LEV-III ULEV50	CO	0.75	--	--	--	0.04	--	0.8	12.5	Pass

## Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>NFMX10073256</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	11/10/2021	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	61
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	3779	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.00056	--
CO (Carbon Monoxide)	0.06775	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.41557	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0626554	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.20548	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	21.96239	21.96239
NOX (Nitrogen Oxide)	0.0065	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0001263	--
NMOG (Non-methane organic gases)	0.00017	--
HC-TOTAL (Total Hydrocarbon)	0.00064	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	394	999
Optional Carbon-Related Exhaust Emissions	394	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	393.64375	--

## Manufacturer Test Comments

NMOG = 1.03 \* NMHCr

## Certification Summary Information Report

Test Group		TFMXT03.03V7				Evaporative/Refueling Family				TFMXR0140NDG		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0.2	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0002	--	1.03	--	0.0095	--	0.01	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0067	--	--	--	--	--	0.025	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0065	--	--	--	0.0092	--	0.016	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	OPT-CREE	999	--	--	--	0.3	--	999	--	--
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0002	--	1.03	--	0.0095	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0067	--	--	--	--	--	0.025	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0065	--	--	--	0.0092	--	0.016	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

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>NFMX10073250</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	11/10/2021	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	61
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	3801	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	855.00911	--
FE BAG 1 (Bag 1 Fuel Economy)	10.1173	10.1173
CO2 BAG 2 (Bag 2 Carbon Dioxide)	541.16255	--
FE BAG 2 (Bag 2 Fuel Economy)	15.98959	15.98959
METHANE (CH4 - Methane)	0.00269	--
CO (Carbon Monoxide)	0.2232	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.27188	--
DT-EER (Drive Trace Energy Economy Rating)	-0.967352	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.42506	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	14.15776	14.15776
NOX (Nitrogen Oxide)	0.08073	--
HC-NM (Non-methane Hydrocarbon)	0.0053775	--
NMOG (Non-methane organic gases)	0.00536	--
PM (Particulate Matter)	0.0016396	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0861075	--
HC-TOTAL (Total Hydrocarbon)	0.00789	--

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
-------------------	--------------	-------------------------------------	--------------

<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
Carbon dioxide	610.92174	--

**Manufacturer Test Comments**                      NMOG = 1.03 \* NMHCr

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0016	--	--	--	0	--	0.002	0.006	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0016	--	--	--	0	--	0.002	0.006	Pass

## Certification Summary Information Report

Test Group	TFMXT03.03V7	Evaporative/Refueling Family	TFMXR0140NDG
<b>Test #</b>	<b>NFMX10073255</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	11/12/2021	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	61
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	3828	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>Test Results</b>			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
<b>CO (Carbon Monoxide)</b>	0.51421	--	
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	-1.71285	--	
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	-1.10154	--	
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	-1.77711	--	
<b>HCHO (Formaldehyde)</b>	0	--	
<b>MFR FE (Manufacturer Fuel Economy)</b>	14.05589	14.05589	
<b>NOX (Nitrogen Oxide)</b>	0.00433	--	
<b>HC-NM (Non-methane Hydrocarbon)</b>	0	--	
<b>NMOG (Non-methane organic gases)</b>	0	--	
<b>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</b>	0.00433	--	
<b>HC-TOTAL (Total Hydrocarbon)</b>	0	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
<b>Carbon dioxide</b>	614.81528	--	
<b>Manufacturer Test Comments</b>	NMOG = 1.03 * NMHC <sub>r</sub>		

## Certification Summary Information Report

Test Group	TFMXT03.03V7	Evaporative/Refueling Family	TFMXR0140NDG
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>373-B</b>	<b>Fuel Calibration Number</b>	<b>54</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	08/31/2020
<b>Fuel Batch Calibration Effective Date</b>	08/31/2020	<b>Fuel Batch Calibration Ineffective Date</b>	12/31/2100
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.752
<b>Fuel Ethanol Volume Percent (%)</b>	9.6	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17958
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.827	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>375-B</b>	<b>Fuel Calibration Number</b>	<b>39</b>
<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)	<b>Fuel Batch Calibration Date</b>	11/02/2021
<b>Fuel Batch Calibration Effective Date</b>	11/02/2021	<b>Fuel Batch Calibration Ineffective Date</b>	12/31/2100
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.744
<b>Fuel Ethanol Volume Percent (%)</b>	9.7	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17857
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.83	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>373-B</b>	<b>Fuel Calibration Number</b>	<b>61</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	07/29/2021
<b>Fuel Batch Calibration Effective Date</b>	07/29/2021	<b>Fuel Batch Calibration Ineffective Date</b>	12/31/2100
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.752
<b>Fuel Ethanol Volume Percent (%)</b>	9.6	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17929
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.833	<b>Weight Fraction CO2</b>	--

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.03V7	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
-------------------	--------------	-------------------------------------	--------------

#### Consolidated List of Standards

**Exhaust Standards**

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	Federal Tier 3 Bin 50
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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	--	--	--	--	--	--	0.13	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.2	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.002	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.003	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0095	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0187	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.090
150,000 miles	NOX	--	--	--	--	--	--	0.0092	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0.3	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	Federal Tier 3 Bin 50
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	US06

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

### Certification Summary Information Report

<b>Test Group</b>		TFMXT03.03V7			<b>Evaporative/Refueling Family</b>			TFMXR0140NDG	
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both	
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 50	
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			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	--	--	--	--	--	--	0.2	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0095	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0187	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0092	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0.3	999.999

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both	
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-III ULEV50	
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Fed. fuel 50 F exh.	

  

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	1.7
4,000 miles	HCHO	--	--	--	--	--	--	--	0.016
4,000 miles	NMOG	--	--	--	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.100
4,000 miles	NOX	--	--	--	--	--	--	--	999.999

### Certification Summary Information Report

<b>Test Group</b>		TFMXT03.03V7			<b>Evaporative/Refueling Family</b>			TFMXR0140NDG		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-III ULEV50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			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	--	--	--	--	--	--	0.13	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0095	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0187	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.090
150,000 miles	NOX	--	--	--	--	--	--	0.0092	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-III ULEV50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			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

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-III ULEV50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			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	--	--	--	--	--	--	0.04	12.5

### Certification Summary Information Report

<b>Test Group</b>		TFMXT03.03V7			<b>Evaporative/Refueling Family</b>			TFMXR0140NDG		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-III ULEV50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0095	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0.0187	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.0092	999.999	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Cold CO		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
50,000 miles	CO	--	--	--	--	--	--	0.04	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0069	0.4	

**Evaporative/Refueling Standards**

<b>Evaporative/Refueling Family</b>		TFMXR0140NDG			<b>Cert Region</b>			California + CAA Section 177 states		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>			California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>		Federal fuel refueling test (ORVR)								
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>					
Gasoline	150,000 miles	OMHCE	--	0.20	0.002					

<b>Evaporative/Refueling Family</b>		TFMXR0140NDG			<b>Cert Region</b>			California + CAA Section 177 states		
<b>Cert/In-Use Code</b>		Both			<b>Standard Level</b>			California LEV-III Zero Evap (Option 2)		
<b>Test Procedure</b>		2-day evap								
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>					
Gasoline	150,000 miles	OMHCE	--	0.500	0					

### Certification Summary Information Report

<b>Test Group</b>		TFMXT03.03V7	<b>Evaporative/Refueling Family</b>		TFMXR0140NDG
<b>Evaporative/Refueling Family</b>		TFMXR0140NDG	<b>Cert Region</b>		California + CAA Section 177 states California LEV-III Zero Evap (Option 2)
<b>Cert/In-Use Code</b>		Both	<b>Standard Level</b>		
<b>Test Procedure</b>		Evap Canister Bleed Test			
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0
<b>Evaporative/Refueling Family</b>		TFMXR0140NDG	<b>Cert Region</b>		Federal
<b>Cert/In-Use Code</b>		Both	<b>Standard Level</b>		Federal Tier 3 Evap
<b>Test Procedure</b>		2-day evap			
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0
<b>Evaporative/Refueling Family</b>		TFMXR0140NDG	<b>Cert Region</b>		Federal
<b>Cert/In-Use Code</b>		Both	<b>Standard Level</b>		Federal Tier 3 Evap
<b>Test Procedure</b>		Federal Fuel Running Loss			
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0
<b>Evaporative/Refueling Family</b>		TFMXR0140NDG	<b>Cert Region</b>		Federal
<b>Cert/In-Use Code</b>		Both	<b>Standard Level</b>		Federal Tier 3 Evap
<b>Test Procedure</b>		Federal fuel 3-day evap			
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0
<b>Evaporative/Refueling Family</b>		TFMXR0140NDG	<b>Cert Region</b>		California + CAA Section 177 states California LEV-III Zero Evap (Option 2)
<b>Cert/In-Use Code</b>		Both	<b>Standard Level</b>		
<b>Test Procedure</b>		Federal Fuel Running Loss			
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	OMHCE	--	0.05	0

### Certification Summary Information Report

<b>Test Group</b>		TFMXT03.03V7		<b>Evaporative/Refueling Family</b>		TFMXR0140NDG					
<b>Evaporative/Refueling Family</b>		TFMXR0140NDG		<b>Cert Region</b>		Federal					
<b>Cert/In-Use Code</b>		Both		<b>Standard Level</b>		Federal Tier 3 Evap					
<b>Test Procedure</b>		Federal fuel refueling test (ORVR)									
<b>Fuel</b>		<b>Useful Life</b>		<b>Emission Name</b>		<b>Rounded Result</b>		<b>Std</b>		<b>Add DF</b>	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.20		0.002	
<b>Evaporative/Refueling Family</b>		TFMXR0140NDG		<b>Cert Region</b>		Federal					
<b>Cert/In-Use Code</b>		Both		<b>Standard Level</b>		Federal Tier 3 Evap					
<b>Test Procedure</b>		Evap Canister Bleed Test									
<b>Fuel</b>		<b>Useful Life</b>		<b>Emission Name</b>		<b>Rounded Result</b>		<b>Std</b>		<b>Add DF</b>	
Gasoline		150,000 miles		HC-TOTAL		--		0.020		0	
<b>Evaporative/Refueling Family</b>		TFMXR0140NDG		<b>Cert Region</b>		California + CAA Section 177 states					
<b>Cert/In-Use Code</b>		Both		<b>Standard Level</b>		California LEV-III Zero Evap (Option 2)					
<b>Test Procedure</b>		Federal fuel 3-day evap									
<b>Fuel</b>		<b>Useful Life</b>		<b>Emission Name</b>		<b>Rounded Result</b>		<b>Std</b>		<b>Add DF</b>	
Gasoline		150,000 miles		OMHCE		--		0.500		0	

## Certification Summary Information Report

Test Group	TFMXT03.03V7	Evaporative/Refueling Family	TFMXR0140NDG
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
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)		
<b>Certification Region</b>			

## Certification Summary Information Report

Test Group	TFMXT03.03V7	Evaporative/Refueling Family		TFMXR0140NDG
CA	California + CAA Section 177 states	FA	Federal	
<b>Exhaust Emission Standard Level</b>				
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		TFMXT03.03V7	Evaporative/Refueling Family	TFMXR0140NDG
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70
<b>Transmission Type Code</b>				
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)	
<b>Drive System Code</b>				
4	4-Wheel Drive	P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
<b>Additional Terms and Acronyms</b>				
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	