

## Certification Summary Information Report

<b>Manufacturer</b>	Ford Motor Company	<b>Manufacturer Code</b>	FMX
<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Certificate Number</b>	TFMXT02.71HS-064	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	10/29/2025	<b>Certificate Revision Date</b>	--
<b>Certificate Effective Date</b>	10/29/2025	<b>Conditional Certificate</b>	No
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	09/25/2025 03:20:41 PM
<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 & ported 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>	LDT3
<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>	TFMXGPGNND1B	<b>Durability Group Equivalency Factor</b>	2.5
<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>	02/23/2026	<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>	TFMXT01.52X1
<b>Test Group OBD Compliance Level</b>	Partial - with deficiencies	<b>Number of Test Group OBD Deficiencies</b>	2
<b>OBD Deficiencies Comments</b>	--		
<b>Mfr Test Group Comments</b>	City Litmus Value: 14.9, City Litmus Threshold: 13.9, Hwy Litmus Value: 20.2, Hwy Litmus Threshold: 19.1.		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<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	161 - RANGER 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	161 - RANGER 4WD	Federal	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>	--				
<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	TFMXT02.71HS				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							
<b>Mfr After Treatment Device (ATD) Comments</b>											
2TWC											
<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>											
2.7											
<b>Engine Rated Horsepower</b>											
315											
<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>											
dual intake & exhaust											
<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>											
--											
<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>											
2.7L TiVCT GTPFDI; HP based on Regular Grade Fuel											
<b>Official Test Numbers</b>											
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		RFMX91005364	RFMX91005368	RFMX10078935	RFMX10078936	RFMX91005369	82.2	228.2	999.9	286.1	1

## Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>SFTP LEV-III Official Test Numbers</b>			
<b>Test Group Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>
Gasoline	RFMX91005364	RFMX91005368	RFMX10078935

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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**Emission Data Vehicle Information**

Vehicle ID / Configuration	301W321 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	NFMXT02.31EM	Original Evaporative/Refueling Family	NFMXR0140NDG
Original Test Vehicle Model Year	2022		

**Vehicle Model**

Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Bronco
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**Leak Family Details**

Leak Family Identifier	001	Leak Family Name	NFMXR0140NDG-001
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**Drive Sources and Fuel System Details**

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	--		
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

**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	44.07	0.6921	0.04663	20.96	0.5259	0.04582	26

Emission Control Device Comments      22MY BETP

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<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

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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**Emission Data Vehicle Information**

<b>Vehicle ID / Configuration</b>	MG11-2.3-J-203 / 0	<b>Manufacturer Vehicle Configuration Number</b>	0
<b>Original Test Group Name</b>	MFMXT02.31EM	<b>Original Evaporative/Refueling Family</b>	MFMXR0140NDG
<b>Original Test Vehicle Model Year</b>	2021		
<b>Vehicle Model</b>			
<b>Represented Test Vehicle Make</b>	Ford	<b>Represented Test Vehicle Model</b>	Bronco

**Leak Family Details**

<b>Leak Family Identifier</b>	001	<b>Leak Family Name</b>	MFMXR0140NDG-001
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**Drive Sources and Fuel System Details**

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline

<b>Hybrid Indicator</b>	No	<b>Multiple Fuel Combustion</b>	--
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--
<b>Fuel Cell Indicator</b>	--	<b>Rechargeable Energy Storage System, if 'Other'</b>	--
<b>Rechargeable Energy Storage System</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

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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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)	
<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>	TFMXT02.71HS	<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>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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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>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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<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>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>MFMX10067818</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</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>	11/13/2020	<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>	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 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)
<b>OMHCE (Organic material Hydrocarbon Equivalent)</b>	0	--
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	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	0	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0	0	0	0.05	Pass



## Certification Summary Information Report

Test Group	TFMXT02.71HS			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	38.85	0.1756	0.03687	15.37	0.1622	0.03472	18.6
Cold CO	38.85	0.1756	0.03687	15.37	0.1622	0.03472	N/A
US06	38.85	0.1756	0.03687	15.37	0.1622	0.03472	N/A
Emission Control Device Comments	T3B50/ULEV50						
Manufacturer Test Vehicle Comments	2.7L Ford Ranger. Vehicle update submitted to reflect the right B Target coefficients.						

## Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>RFMX10078936</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>	02/07/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	375-B	<b>Fuel Calibration Number</b>	46
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, 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>	--		
<b>Test Start Odometer Reading</b>	4245	<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 (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	548.5171	--
FE BAG 1 (Bag 1 Fuel Economy)	15.74102	15.74102
CO2 BAG 2 (Bag 2 Carbon Dioxide)	468.59564	--
FE BAG 2 (Bag 2 Fuel Economy)	18.48506	18.48506
CO2 BAG 3 (Bag 3 Carbon Dioxide)	433.78085	--
FE BAG 3 (Bag 3 Fuel Economy)	19.97123	19.97123
METHANE (CH4 - Methane)	0.00611	--
CO (Carbon Monoxide)	0.24567	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.07605	--
DT-EER (Drive Trace Energy Economy Rating)	2.09095	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.71333	--
MFR FE (Manufacturer Fuel Economy)	18.19801	18.19801
NOX (Nitrogen Oxide)	0.00774	--
HC-NM (Non-methane Hydrocarbon)	0.0227969	--
NMOG (Non-methane organic gases)	0.02513	--
HC-TOTAL (Total Hydrocarbon)	0.02876	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	475.59696	--

Manufacturer Test Comments

NMOG = 1.04 \* NMHCr

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 50	CO	0.25	--	--	--	0.06	--	0.3	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.02	--	--	--	0.0108	--	0	0.3	Pass
CA	50,000 miles	California LEV-III ULEV50	CO	0.25	--	--	--	0.06	--	0.3	12.5	Pass

## Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>RFMX91005364</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>	03/22/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	28637	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4259	<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)	517.1826172	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	497.1034546	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	431.84375	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0038474	--
CO (Carbon Monoxide)	0.228958	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.6902187	--
DT-EER (Drive Trace Energy Economy Rating)	1.1577766	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.306886	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0068001	--
N2O (Nitrous Oxide)	0.0002598	--
HC-NM (Non-methane Hydrocarbon)	0.0088356	--
NMOG (Non-methane organic gases)	0.0097047	--
PM (Particulate Matter)	0.0011906	--
HC-TOTAL (Total Hydrocarbon)	0.0125154	--

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>
<b>Carbon-Related Exhaust Emissions</b>	9999.9999999	999

<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
<b>Carbon dioxide</b>	483.3105774	--

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

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	0.23	--	--	--	0.18	--	0.4	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.52	--	--	--	--	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0.3	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0038	--	--	--	0.0051	--	0.009	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0003	--	--	--	0.0006	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0097	--	1.1	--	0.015	--	0.025	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0165	--	--	--	--	--	0.032	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0317	--	--	--	--	--	0.032	0.080	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0068	--	--	--	0.001	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0012	--	--	--	0.0002	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.23	--	--	--	0.18	--	0.4	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.52	--	--	--	--	--	0.5	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0097	--	1.1	--	0.015	--	0.025	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0165	--	--	--	--	--	0.032	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0317	--	--	--	--	--	0.032	0.080	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0068	--	--	--	0.001	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0012	--	--	--	0.0002	--	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>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>RFMX91005369</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>	03/22/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	28637	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4270	<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>METHANE (CH4 - Methane)</b>	0.0004446	--
<b>CO (Carbon Monoxide)</b>	0.0436754	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	4.5103674	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	0.7566817	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	5.9530454	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	27.7995243	--
<b>NOX (Nitrogen Oxide)</b>	0.0012952	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.000084	--
<b>NMOG (Non-methane organic gases)</b>	0.0000865	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.0005186	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	311.8620605	--

**Manufacturer Test Comments**                      None

## Certification Summary Information Report

Test Group		TFMXT02.71HS				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	--	--	--	0.3	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0001	--	1.03	--	0.015	--	0.015	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0014	--	--	--	--	--	0.017	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0013	--	--	--	0.001	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0001	--	1.03	--	0.015	--	0.015	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0014	--	--	--	--	--	0.017	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0013	--	--	--	0.001	--	0.002	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>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<b>Test #</b>	<b>RFMX91005368</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>	03/22/2023	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	28637	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4290	<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)	713.9923096	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	397.713562	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0060877	--
CO (Carbon Monoxide)	0.4492728	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.6504657	--
DT-EER (Drive Trace Energy Economy Rating)	-1.3178047	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.6776834	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0096219	--
N2O (Nitrous Oxide)	0.0006651	--
HC-NM (Non-methane Hydrocarbon)	0.0189839	--
NMOG (Non-methane organic gases)	0.0195534	--
PM (Particulate Matter)	0.0010949	--
HC-TOTAL (Total Hydrocarbon)	0.0249337	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	467.6732483	--

## Manufacturer Test Comments

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

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0011	--	--	--	0.0002	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0011	--	--	--	0.0002	--	0.001	0.006	Pass

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG																																	
<b>Test #</b>	<b>RFMX10078935</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>	02/03/2023	<b>Fuel</b>	N/A																																	
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	76																																	
<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>	--																																			
<b>Test Start Odometer Reading</b>	4028	<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																																	
<b>Test Results</b>																																				
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Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																		
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																		
Carbon dioxide	543.79621	--																																		
<b>Manufacturer Test Comments</b>	Measured NMOG																																			

## Certification Summary Information Report

Test Group	TFMXT02.71HS	Evaporative/Refueling Family	TFMXR0140NDG
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>375-B</b>	<b>Fuel Calibration Number</b>	<b>46</b>
<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)	<b>Fuel Batch Calibration Date</b>	01/02/2023
<b>Fuel Batch Calibration Effective Date</b>	01/02/2023	<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>	0.746
<b>Fuel Ethanol Volume Percent (%)</b>	10.2	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17940
<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>	0.828	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>28637</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	08/26/2021
<b>Fuel Batch Calibration Effective Date</b>	08/26/2021	<b>Fuel Batch Calibration Ineffective Date</b>	--
<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>	0.75
<b>Fuel Ethanol Volume Percent (%)</b>	9.6	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17894
<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>	0.825	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>373-B</b>	<b>Fuel Calibration Number</b>	<b>76</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	01/02/2023
<b>Fuel Batch Calibration Effective Date</b>	01/02/2023	<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>	9.8	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17918
<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>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

## Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
<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>	--

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<b>Evaporative/Refueling Family</b>	TFMXR0140NDG
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#### Consolidated List of Standards

**Exhaust Standards**

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, 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	--	--	--	--	--	--	0.3	999.999
150,000 miles	N2O	--	--	--	--	--	--	--	0.010
150,000 miles	NMOG	--	--	1.03	--	--	--	0.015	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0.6	999.999

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDT3 (ALVW 3751-5750, 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	--	--	--	--	--	--	0.18	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	CREE	--	--	--	--	--	--	0.3	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0051	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0006	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.015	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.080
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0.6	999.999
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003

### Certification Summary Information Report

<b>Test Group</b>		TFMXT02.71HS			<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>		LDT3 (ALVW 3751-5750, 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)		
<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	CO	--	--	--	--	--	--	0.18	1.7	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	0.015	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.080	
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.003	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-III ULEV50		
<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	--	--	--	--	--	--	0.06	12.5	

<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, 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	--	--	--	0.015	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NOX	--	--	--	--	--	--	0.001	999.999	

### Certification Summary Information Report

<b>Test Group</b>		TFMXT02.71HS			<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>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-III ULEV50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		
<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	CO	--	--	--	--	--	--	--	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999	
150,000 miles	NOX	--	--	--	--	--	--	--	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		
<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	CO	--	--	--	--	--	--	--	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999	
150,000 miles	NOX	--	--	--	--	--	--	--	999.999	
150,000 miles	PM	--	--	--	--	--	--	0.0002	0.006	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT3 (ALVW 3751-5750, 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	--	--	--	--	--	--	0.06	12.5	
120,000 miles	HC-NM	--	--	--	--	--	--	0.0108	0.3	

**Evaporative/Refueling Standards**

### Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS	<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 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>	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>	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 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 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
<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

## Certification Summary Information Report

<b>Test Group</b>	TFMXT02.71HS		<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 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>	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
<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
<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

## Certification Summary Information Report

Test Group	TFMXT02.71HS	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	TFMXT02.71HS	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		TFMXT02.71HS	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	