

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Certificate Number	VFMXT02.34K2-012	CARB Executive Order #	--
Certificate Issue Date	06/09/2026	Certificate Revision Date	--
Certificate Effective Date	06/09/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	05/14/2026 12:00:05 PM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition direct & ported injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT2
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VFMXGPGNND2B	Durability Group Equivalency Factor	1.1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	09/21/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VFMXT03.57AV
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	1
OBD Deficiencies Comments	--		
Mfr Test Group Comments	E0 FE Litmus= 16.7 City vs 16.5 City Threshold, 21.7 HWY vs. 20.7 HWY Threshold		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/16/2026 02:18:10 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	Hydrocarbon Trap				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	See comments below				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	185	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	2				
Mfr Evaporative/Refueling Family Comments	1 X 2.7L HA 3-port Rect. + 1 X 0.066L Bleed						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VFMXR0185NDF-001	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Ford Motor Company	1 - Ford	66 - EXPLORER TREMOR AWD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	10	Yes
Ford Motor Company	1 - Ford	163 - EXPLORER RWD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	10	Yes
Ford Motor Company	1 - Ford	163 - EXPLORER RWD	Federal	2-Wheel Drive, Rear	Automatic	10	Yes
Ford Motor Company	1 - Ford	66 - EXPLORER TREMOR AWD	Federal	Part-time 4-Wheel Drive	Automatic	10	Yes
Ford Motor Company	1 - Ford	164 - EXPLORER AWD	Federal	Part-time 4-Wheel Drive	Automatic	10	Yes
Ford Motor Company	1 - Ford	164 - EXPLORER AWD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	10	Yes

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Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF	
Engine Description				
Hybrid Type	--	Hybrid Description	--	
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	2.3L Liter, I4, LDT2	
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	2.3L I-4	
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 5W-30 / ILSAC GF-7	
Number of Cylinders/Rotors	4	Mechanically Variable Compression Ratio Indicator	N	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
--				
Direct Ozone Reduction (DOR) Device				
Not Equipped				
Mfr Emission Control Device Comments				
--				
Engine Configuration Number 1				
Engine Displacement (liters)	2.3	Engine Rated Horsepower	300	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1	
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Air	
Air Aspiration Drive Method(s)	Mechanical			
Cylinder Deactivation	No			
Cylinder Deactivation Description	--			
Variable Valve Timing	Yes			
Variable Valve Timing System Description	TiVCT			
Variable Valve Lift?	No			
Variable Valve Lift System Description	--			
Number of Knock Sensors	2	Number of Air/Fuel Sensors	2	
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	WR-HO2S	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	HO2S	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes	
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--	
Closed Loop Air Injection System	No			
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	--			

Certification Summary Information Report

Test Group		VFMXT02.34K2				Evaporative/Refueling Family			VFMXR0185NDF		
Official Test Numbers											
Test Group Fuel		FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		SFMX10088599	SFMX10088601	SFMX10088602	SFMX10088603	SFMX10088600	19.8	228.2	27.4	286.1	1

SFTP LEV-III Official Test Numbers				
Test Group Fuel		FTP	US06	SC03
Gasoline		SFMX10088599	SFMX10088601	SFMX10088602

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF						
Emission Data Vehicle Information									
Vehicle ID / Configuration	LTH1-3.5-J-429 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	LFMXT03.55HM	Original Evaporative/Refueling Family	LFMXR0185NDH						
Original Test Vehicle Model Year	2020								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	T150 Transit Van MDPV						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline, Ethanol</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline, Ethanol		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline, Ethanol							
Hybrid Indicator	No								
Multiple Fuel Storage	Fuels Stored Together	Multiple Fuel Combustion	Fuels Combusted Together						
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 - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	LTTHKXNB91	Rated Horsepower	275						
Displacement (liters)	3.5								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	N/A	Drive Mode While Testing	Part-time 4-Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	6276	Equivalent Test Weight (pounds)	6500						
GVWR (lbs)	8550	N/V Ratio	29.4						
Axle Ratio	3.73								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	51.3	0.4872	0.04363	22.77	0.32945	0.04248	24.6
Cold CO	51.3	0.4872	0.04363	22.77	0.32945	0.04248	N/A
US06	51.3	0.4872	0.04363	22.77	0.32945	0.04248	N/A

Emission Control Device Comments	4K EVAP E10 T20-0108-01
Manufacturer Test Vehicle Comments	Transit AWD MDPV (24.7 gal tank)

Test #	LFMX10060475	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	LFMX10061436	Test Fuel Type	59 - Tier 3 E10 Premium Gasoline (10 RVP-FFV ORVR Only)
Test Date	04/30/2019	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	4837	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.008	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.008	--

Manufacturer Test Comments	ORVR test
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.008	0.001	0.01	0.2	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.008	0.001	0.01	0.2	Pass

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF

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Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
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Emission Data Vehicle Information

Vehicle ID / Configuration	LTH1-3.5-J-435 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	LFMXD03.56BZ	Original Evaporative/Refueling Family	LFMXR0185NDJ
Original Test Vehicle Model Year	2020		

Vehicle Model

Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	T150 Transit Van <10K
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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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 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 - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	LTTHURNK00	Rated Horsepower	315
Displacement (liters)	3.5		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel
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)	8124	Equivalent Test Weight (pounds)	9000
GVWR (lbs)	9950	N/V Ratio	29.4
Axle Ratio	3.73		
Transmission Type	Semi-Automatic	# of Transmission Gears	10
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)
City/Highway/Evap	66.02	0.3429	0.0793	37.91	0.1103	0.07869	37.5
US06	66.02	0.3429	0.0793	37.91	0.1103	0.07869	N/A

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Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF						
Emission Control Device Comments	T20-0143-01 T150 <10K (24.7 gal fuel tank)								
Manufacturer Test Vehicle Comments	T150 235/65R16C simulating a T350 205/75R16								
Test #	LFMX10060474	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	04/26/2019	Fuel	Gasoline						
Fuel Batch ID	--	Fuel Calibration Number	--						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	APTL								
E10 Evaporative Test Measurement Method	--								
Test Start Odometer Reading	4745	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0033</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL (Total Hydrocarbon)	0.0033	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL (Total Hydrocarbon)	0.0033	--							
Manufacturer Test Comments									
BETP E10 Evaporative Test Measurement Method is "Total Hydrocarbon (THC)									
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	0.0033	0	0.003	0.02	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0033	0	0.003	0.02	Pass	

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Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF						
Emission Data Vehicle Information									
Vehicle ID / Configuration	RTW1-2.3-J-779 / 3	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SFMXT02.34K2	Original Evaporative/Refueling Family	SFMXR0185NDF						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Explorer Tremor AWD						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SFMXR0185NDF-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	SCTWN3NA06	Rated Horsepower	300						
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	150,000 (mi)						
Curb Weight (lbs)	4596	Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	5940	N/V Ratio	25.1						
Axle Ratio	3.58								
Transmission Type	Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family		VFMXR0185NDF	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	44.41	0.0514	0.03372	18.76	0.0362	0.03199	17.5	
Cold CO	44.41	0.0514	0.03372	18.76	0.0362	0.03199	N/A	
US06	44.41	0.0514	0.03372	18.76	0.0362	0.03199	N/A	
Emission Control Device Comments		T3B30						
Manufacturer Test Vehicle Comments		2.3L Ford Explorer Tremor						

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088599	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/09/2024	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	85
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4333	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	426.255277	--
FE BAG 1 (Bag 1 Fuel Economy)	20.342138	20.342138
CO2 BAG 2 (Bag 2 Carbon Dioxide)	385.91692	--
FE BAG 2 (Bag 2 Fuel Economy)	22.531924	22.531924
CO2 BAG 3 (Bag 3 Carbon Dioxide)	383.7017	--
FE BAG 3 (Bag 3 Fuel Economy)	22.635995	22.635995
METHANE (CH4 - Methane)	0.0081	--
CO (Carbon Monoxide)	0.37	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.101147	--
DT-EER (Drive Trace Energy Economy Rating)	-1.00516	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.868255	--
HCHO (Formaldehyde)	0.0002	--
MFR FE (Manufacturer Fuel Economy)	22.1	22.1
NOX (Nitrogen Oxide)	0.005256	--
NMOG (Non-methane organic gases)	0.006417	--
PM (Particulate Matter)	0.0003	--
HC-TOTAL (Total Hydrocarbon)	0.013497	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	395	999

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Test Group		VFMXT02.34K2			Evaporative/Refueling Family					VFMXR0185NDF		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		393.7			--					
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.37	--	--	--	--	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.67	--	--	--	--	--	0.7	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	HCHO	0.0002	--	--	--	--	--	0	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0081	--	--	--	--	--	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0064	--	1.1	--	--	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0117	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0252	--	--	--	--	--	0.025	0.040	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0053	--	--	--	--	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	--	--	0	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.37	--	--	--	--	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.67	--	--	--	--	--	0.7	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	HCHO	0.0002	--	--	--	--	--	0	0.004	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0064	--	1.1	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0117	--	--	--	--	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0252	--	--	--	--	--	0.025	0.040	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0053	--	--	--	--	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0003	--	--	--	--	--	0	0.003	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

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Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088603	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	04/24/2024	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	51
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4414	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	582.51823	--
FE BAG 1 (Bag 1 Fuel Economy)	14.73127	14.73127
CO2 BAG 2 (Bag 2 Carbon Dioxide)	475.65761	--
FE BAG 2 (Bag 2 Fuel Economy)	18.25408	18.25408
CO2 BAG 3 (Bag 3 Carbon Dioxide)	437.37733	--
FE BAG 3 (Bag 3 Fuel Economy)	19.88583	19.88583
METHANE (CH4 - Methane)	0.01343	--
CO (Carbon Monoxide)	0.92	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.015253	--
DT-EER (Drive Trace Energy Economy Rating)	-0.535893	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.305348	--
MFR FE (Manufacturer Fuel Economy)	17.8	17.8
NOX (Nitrogen Oxide)	0.01538	--
N2O (Nitrous Oxide)	0.01	--
HC-NM (Non-methane Hydrocarbon)	0.04	--
NMOG (Non-methane organic gases)	0.04806	--
HC-TOTAL (Total Hydrocarbon)	0.05726	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	489	--

Certification Summary Information Report

Test Group		VFMXT02.34K2				Evaporative/Refueling Family				VFMXR0185NDF		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		487.3			--					
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 3 Bin 30	CO	0.92	--	--	--	--	--	0.9	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.04	--	--	--	--	--	0	0.4	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.92	--	--	--	--	--	0.9	12.5	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088604	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/05/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4723	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	447.54599	--
FE BAG 1 (Bag 1 Fuel Economy)	19.810769	19.810769
CO2 BAG 2 (Bag 2 Carbon Dioxide)	411.743988	--
FE BAG 2 (Bag 2 Fuel Economy)	21.649452	21.649452
CO2 BAG 3 (Bag 3 Carbon Dioxide)	394.272003	--
FE BAG 3 (Bag 3 Fuel Economy)	22.640116	22.640116
METHANE (CH4 - Methane)	0.0104	--
CO (Carbon Monoxide)	0.58	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.091874	--
DT-EER (Drive Trace Energy Economy Rating)	-0.477027	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.140039	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	21.5	21.5
NOX (Nitrogen Oxide)	0.004716	--
N2O (Nitrous Oxide)	0.0008	--
HC-NM (Non-methane Hydrocarbon)	0.007007	--
NMOG (Non-methane organic gases)	0.007288	--
PM (Particulate Matter)	0.000397	--
HC-TOTAL (Total Hydrocarbon)	0.016877	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	415	415

Certification Summary Information Report

Test Group		VFMXT02.34K2				Evaporative/Refueling Family				VFMXR0185NDF		
		Test Result Name			Unrounded Test Result			Verify Calculated CO2				
		Carbon dioxide			414.4			--				
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.58	--	--	--	--	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	415	--	--	--	0	--	415	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	HCHO	0	--	--	--	--	--	0	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	METHANE	0.0104	--	--	--	--	--	0.01	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	N2O	0.0008	--	--	--	--	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0073	--	1.1	--	--	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.012	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0047	--	--	--	--	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0004	--	--	--	--	--	0	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.58	--	--	--	--	--	0.6	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	HCHO	0	--	--	--	--	--	0	0.004	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0073	--	1.1	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.012	--	--	--	--	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0047	--	--	--	--	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0004	--	--	--	--	--	0	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

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088609	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	26 - Cold CO Regular (Tier 2)
Test Date	12/10/2024	Fuel	Gasoline
Fuel Batch ID	307B	Fuel Calibration Number	18
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	123	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	569.908997	--	
FE BAG 1 (Bag 1 Fuel Economy)	15.197788	15.197788	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	466.246002	--	
FE BAG 2 (Bag 2 Fuel Economy)	18.843947	18.843947	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	400.848999	--	
FE BAG 3 (Bag 3 Fuel Economy)	21.892529	21.892529	
METHANE (CH4 - Methane)	0.01725	--	
CO (Carbon Monoxide)	1.06	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.205512	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.44722	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.480667	--	
MFR FE (Manufacturer Fuel Economy)	18.6	18.6	
NOX (Nitrogen Oxide)	0.025559	--	
HC-NM (Non-methane Hydrocarbon)	0.04	--	
NMOG (Non-methane organic gases)	0.046728	--	
HC-TOTAL (Total Hydrocarbon)	0.062348	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	472	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	469.8	--	

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Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088600	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/09/2024	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	85
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4333	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.001744	--
CO (Carbon Monoxide)	0.100155	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.3459	--
DT-EER (Drive Trace Energy Economy Rating)	-0.358514	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.51515	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	30.6	30.6
NOX (Nitrogen Oxide)	0.000836	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.001268	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	284	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	283.6	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family					VFMXR0185NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0	--	1.03	--	--	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0008	--	--	--	--	--	0.001	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0008	--	--	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0	--	1.03	--	--	--	0	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0008	--	--	--	--	--	0.001	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0008	--	--	--	--	--	0.001	999.999	Pass

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

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088605	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/05/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4723	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.004693	--	
CO (Carbon Monoxide)	0.068269	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.191408	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.245055	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.400963	--	
MFR FE (Manufacturer Fuel Economy)	30.3	30.3	
NOX (Nitrogen Oxide)	0.000726	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0.00073	--	
NMOG (Non-methane organic gases)	0.000759	--	
HC-TOTAL (Total Hydrocarbon)	0.005201	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	295	295	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	295.2	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family					VFMXR0185NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	CREE	295	--	--	--	0	--	295	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0008	--	1.03	--	--	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0015	--	--	--	--	--	0.002	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0007	--	--	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0008	--	1.03	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0015	--	--	--	--	--	0.002	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0007	--	--	--	--	--	0.001	999.999	Pass

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

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF																																																
Test #	SFMX10088601	Test Procedure	90 - US06																																																
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																																
Test Date	04/09/2024	Fuel	Gasoline																																																
Fuel Batch ID	373-B	Fuel Calibration Number	85																																																
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined																																																
Verify Test Lab ID	APTL																																																		
E10 Evaporative Test Measurement Method	--																																																		
Test Start Odometer Reading	4364	Odometer Units	M																																																
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																																																
State of Charge Delta	--																																																		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																																
Test Results																																																			
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>757.321281</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>11.363476</td><td>11.363476</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>382.370568</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>22.709465</td><td>22.709465</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.012485</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>1.760518</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.67504</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.32052</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-2.83624</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>18.6</td><td>18.6</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.028223</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.034227</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.035253</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0003</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.046104</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	757.321281	--	FE BAG 1 (Bag 1 Fuel Economy)	11.363476	11.363476	CO2 BAG 2 (Bag 2 Carbon Dioxide)	382.370568	--	FE BAG 2 (Bag 2 Fuel Economy)	22.709465	22.709465	METHANE (CH4 - Methane)	0.012485	--	CO (Carbon Monoxide)	1.760518	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.67504	--	DT-EER (Drive Trace Energy Economy Rating)	-1.32052	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.83624	--	MFR FE (Manufacturer Fuel Economy)	18.6	18.6	NOX (Nitrogen Oxide)	0.028223	--	HC-NM (Non-methane Hydrocarbon)	0.034227	--	NMOG (Non-methane organic gases)	0.035253	--	PM (Particulate Matter)	0.0003	--	HC-TOTAL (Total Hydrocarbon)	0.046104	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	757.321281	--																																																	
FE BAG 1 (Bag 1 Fuel Economy)	11.363476	11.363476																																																	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	382.370568	--																																																	
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<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CREE/OPT-CREE</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>469</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	469	--																																										
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																	
Carbon-Related Exhaust Emissions	469	--																																																	
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>465.5</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	465.5	--																																										
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																	
Carbon dioxide	465.5	--																																																	
Manufacturer Test Comments	--																																																		

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family					VFMXR0185NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	--	--	0	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0003	--	--	--	--	--	0	0.006	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088607	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/05/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4755	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	742.382996	--	
FE BAG 1 (Bag 1 Fuel Economy)	11.949046	11.949046	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	378.734009	--	
FE BAG 2 (Bag 2 Fuel Economy)	23.461378	23.461378	
METHANE (CH4 - Methane)	0.016194	--	
CO (Carbon Monoxide)	1.44475	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.2367	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.901495	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.7899	--	
MFR FE (Manufacturer Fuel Economy)	19.4	19.4	
NOX (Nitrogen Oxide)	0.031826	--	
HC-NM (Non-methane Hydrocarbon)	0.049251	--	
NMOG (Non-methane organic gases)	0.051221	--	
PM (Particulate Matter)	0.0005	--	
HC-TOTAL (Total Hydrocarbon)	0.064679	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	461	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	459.3	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VFMXT02.34K2				Evaporative/Refueling Family				VFMXR0185NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0005	--	--	--	--	--	0	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0005	--	--	--	--	--	0	0.006	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088602	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/09/2024	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	85
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4380	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.01006	--
CO (Carbon Monoxide)	0.11747	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.634354	--
DT-EER (Drive Trace Energy Economy Rating)	-0.719689	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.323668	--
MFR FE (Manufacturer Fuel Economy)	17.6	17.6
NOX (Nitrogen Oxide)	0.00224	--
HC-NM (Non-methane Hydrocarbon)	0.006626	--
NMOG (Non-methane organic gases)	0.00682	--
HC-TOTAL (Total Hydrocarbon)	0.01739	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	494	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	494	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088608	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/06/2024	Fuel	N/A
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4771	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.010664	--
CO (Carbon Monoxide)	0.242138	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.812327	--
DT-EER (Drive Trace Energy Economy Rating)	-0.951141	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.23977	--
MFR FE (Manufacturer Fuel Economy)	17.3	17.3
NOX (Nitrogen Oxide)	0.001178	--
HC-NM (Non-methane Hydrocarbon)	0.009993	--
NMOG (Non-methane organic gases)	0.010392	--
HC-TOTAL (Total Hydrocarbon)	0.02076	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	516	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	515.6	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
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Emission Data Vehicle Information

Vehicle ID / Configuration	RTW1-2.3-J-780 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	SFMXT02.34K2	Original Evaporative/Refueling Family	SFMXR0185NDF
Original Test Vehicle Model Year	2025		

Vehicle Model

Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Explorer AWD
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	SFMXR0185NDF-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	RCTWN3NA01	Rated Horsepower	300
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	150,000 (mi)
Curb Weight (lbs)	4596	Equivalent Test Weight (pounds)	5000
GVWR (lbs)	5940	N/V Ratio	25.1
Axle Ratio	3.58		
Transmission Type	Automatic	# of Transmission Gears	10
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)
City/Highway/Evap	44.41	0.0514	0.03372	18.76	0.0362	0.03199	17.5

Emission Control Device Comments T3B30/SULEV30

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Manufacturer Test Vehicle Comments	2.3L Ford Explorer		

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10083317	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/04/2023	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	79
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4029	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	455.64845	--
FE BAG 1 (Bag 1 Fuel Economy)	19.05433	19.05433
CO2 BAG 2 (Bag 2 Carbon Dioxide)	425.57879	--
FE BAG 2 (Bag 2 Fuel Economy)	20.47263	20.47263
CO2 BAG 3 (Bag 3 Carbon Dioxide)	398.47901	--
FE BAG 3 (Bag 3 Fuel Economy)	21.90053	21.90053
METHANE (CH4 - Methane)	0.00432	--
CO (Carbon Monoxide)	0.37314	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.8218	--
DT-EER (Drive Trace Energy Economy Rating)	0.4495	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.4422	--
MFR FE (Manufacturer Fuel Economy)	20.5	20.5
NOX (Nitrogen Oxide)	0.005535	--
N2O (Nitrous Oxide)	0.0004	--
HC-NM (Non-methane Hydrocarbon)	0.005257	--
NMOG (Non-methane organic gases)	0.005468	--
PM (Particulate Matter)	0.000329	--
HC-TOTAL (Total Hydrocarbon)	0.00929	--

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	425	999
Optional Carbon-Related Exhaust Emissions	424.8241	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	424.36783	--

Manufacturer Test Comments Linking test

Test #	SFMX10083318	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SFMX10083317	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/27/2023	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4181	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.173	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.173	--

Manufacturer Test Comments 3 Day EVAP THC x 1.08

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	0.173	0	0.173	0.4	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.173	0	0.173	0.4	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF									
Test #	SFMX10083319	Test Procedure	23 - 2-day evap									
Exhaust Test # for this Evap Test	SFMX10083317	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	10/05/2023	Fuel	Gasoline									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	APTL											
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)											
Test Start Odometer Reading	4205	Odometer Units	M									
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--									
State of Charge Delta	No											
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No									
Test Results												
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0.171</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.171</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	OMHCE (Organic material Hydrocarbon Equivalent)	0.171	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.171	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0.171	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.171	--										
Manufacturer Test Comments												
3 Day EVAP THC x 1.08												
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	0.171	0	0.171	0.4	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.171	0	0.171	0.4	Pass				

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF									
Test #	SFMX10083320	Test Procedure	32 - Federal Fuel Running Loss									
Exhaust Test # for this Evap Test	SFMX10083317	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	09/27/2023	Fuel	Gasoline									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	APTL											
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)											
Test Start Odometer Reading	4181	Odometer Units	M									
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--									
State of Charge Delta	No											
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No									
Test Results												
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	OMHCE (Organic material Hydrocarbon Equivalent)	0	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--										
Manufacturer Test Comments --												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail				
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	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	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	79
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/21/2023
Fuel Batch Calibration Effective Date	06/21/2023	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17922
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/19/2024
Fuel Batch Calibration Effective Date	11/19/2024	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18339
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	85
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	04/02/2024
Fuel Batch Calibration Effective Date	04/01/2024	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17948
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	307B	Fuel Calibration Number	18
Test Fuel Type	26 - Cold CO Regular (Tier 2)	Fuel Batch Calibration Date	03/31/2023
Fuel Batch Calibration Effective Date	03/31/2023	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--

Certification Summary Information Report

Test Group		VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.734
Fuel Ethanol Volume Percent (%)	--		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18678
Fuel Net Heat of Combustion (E10) (MJ/kg)	--		Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865		Weight Fraction CO2	--
Fuel Batch ID	375-B		Fuel Calibration Number	51
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)		Fuel Batch Calibration Date	02/02/2024
Fuel Batch Calibration Effective Date	02/02/2024		Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.746
Fuel Ethanol Volume Percent (%)	9.8		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17901
Fuel Net Heat of Combustion (E10) (MJ/kg)	--		Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829		Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family			VFMXR0185NDF		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30		
Fuel		Gasoline			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	PM	--	--	--	--	--	--	--	0.006	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30		
Fuel		Gasoline			Test Procedure			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	--	--	--	--	--	--	--	1.0	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040	
150,000 miles	NOX	--	--	--	--	--	--	--	999.999	
150,000 miles	PM	--	--	--	--	--	--	--	0.003	

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family			VFMXR0185NDF	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	METHANE	--	--	--	--	--	--	--	0.030
150,000 miles	N2O	--	--	--	--	--	--	--	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family			VFMXR0185NDF	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	--	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	--	0.4
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	--	12.5
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	PM	--	--	--	--	--	--	--	0.006
Evaporative/Refueling Standards									

Certification Summary Information Report

Test Group		VFMXT02.34K2		Evaporative/Refueling Family		VFMXR0185NDF	
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0		
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.400	0		
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.05	0		
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.20	0.001		

Certification Summary Information Report

Test Group		VFMXT02.34K2		Evaporative/Refueling Family		VFMXR0185NDF	
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.001		
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0		
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.400	0		
Evaporative/Refueling Family		VFMXR0185NDF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		

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Test Group		VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VFMXT02.34K2	Evaporative/Refueling Family		VFMXR0185NDF
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

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Test Group		VFMXT02.34K2	Evaporative/Refueling Family		VFMXR0185NDF
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VFMXT02.34K2	Evaporative/Refueling Family		VFMXR0185NDF
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	