

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Certificate Number	VFMXT03.57AV-004	CARB Executive Order #	--
Certificate Issue Date	05/14/2026	Certificate Revision Date	--
Certificate Effective Date	05/14/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	05/14/2026 08:40:38 AM
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	No
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDT4
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	VFMXGPGNNE4D	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	07/20/2026	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	Yes		
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	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	E10 City Litmus Value = 13.4 mpg, City Litmus Threshold = 13.2 mpg, E10 HWY Litmus Value = 18.1 mpg, HWY Litmus Threshold = 17.9 mpg		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	Update for Correction	Submission/Correction Date	01/22/2026 07:45:24 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Other	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	1 X 3.7L HA 3-port Rect. + 3 X 0.048L Bleed				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	260	Number of Primary Canisters	1				
Number of Bleed Canisters	3	Bleed Canister Total Working Capacity (grams)	1				
Mfr Evaporative/Refueling Family Comments	F-150/Expedition/Navigator Large tank. Vehicle Lines Covered; 5.0L PFDI F-150, 5.2L SC F-150 Raptor R, 3.5L GTPFDI Expedition MAX, 3.5L GTPFDI Navigator L						
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				
VFMXR0260NDV-001	50 State	0.02	VFMXR0260NDV-001				
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	241 - EXPEDITION 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	241 - EXPEDITION 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	240 - EXPEDITION 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	240 - EXPEDITION 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Engine Description			
Hybrid Type	--	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 5W-30 / ILSAC GF-7
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Palladium + Rhodium	Ceramic
3	Other	Palladium + Rhodium	Ceramic
4	Other	Palladium + Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
ATD3 and ATD4 are PD+RH TWC + Gasoline Particulate Filter with no PGM loading			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV								
Engine Configuration Number 1											
Engine Displacement (liters)	3.5	Engine Rated Horsepower	380								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2								
Air Aspiration Device Configuration	Parallel	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	4								
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated air fuel	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--								
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--								
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	Expedition										
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	TFMX10091441	TFMX10091444	TFMX10091445	TFMX10091446	TFMX10091442	13.5	14	18.4	18.9	--	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP	US06	SC03								
Gasoline	TFMX10091441	TFMX10091444	TFMX10091445								

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV						
Emission Data Vehicle Information									
Vehicle ID / Configuration	JFC1-5.0-J-029 / 0	Manufacturer Vehicle Configuration Number	1						
Original Test Group Name	JFMXT05.03DN	Original Evaporative/Refueling Family	JFMXR0260NDG						
Original Test Vehicle Model Year	2018								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F150 Super Cab 4X4						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	JFMXR0260NDG-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	JTFCAVNC05	Rated Horsepower	395						
Displacement (liters)	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	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5217	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	7850	N/V Ratio	25.7						
Axle Ratio	3.73								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VFMXT03.57AV			Evaporative/Refueling Family		VFMXR0260NDV	
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	44.39	0.1933	0.03931	26.94	0.1117	0.0368	20.3	
Cold CO	44.39	0.1933	0.03931	26.94	0.1117	0.0368	N/A	
US06	44.39	0.1933	0.03931	26.94	0.1117	0.0368	N/A	
Emission Control Device Comments		Test Request t18-0006-01; T3B125 / ULEV125						
Manufacturer Test Vehicle Comments		2018MY F150 Super Cab 4x4						

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Test #	JFMX10048057	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	03/04/2017	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	13
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4867	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	593.7469258	--
FE BAG 1 (Bag 1 Fuel Economy)	14.4883336	14.4883336
CO2 BAG 2 (Bag 2 Carbon Dioxide)	588.179163	--
FE BAG 2 (Bag 2 Fuel Economy)	14.748881	14.748881
CO2 BAG 3 (Bag 3 Carbon Dioxide)	515.8187807	--
FE BAG 3 (Bag 3 Fuel Economy)	16.7965514	16.7965514
METHANE (CH4 - Methane)	0.008781	--
CO (Carbon Monoxide)	0.7106258	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.3945	--
DT-EER (Drive Trace Energy Economy Rating)	1.18092	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.84808	--
HCHO (Formaldehyde)	0.0011057	--
MFR FE (Manufacturer Fuel Economy)	15.2136817	15.2136817
NOX (Nitrogen Oxide)	0.024514	--
N2O (Nitrous Oxide)	0.0017543	--
HC-NM (Non-methane Hydrocarbon)	0.0261758	--
NMOG (Non-methane organic gases)	0.0288016	--
PM (Particulate Matter)	0.000822	--
HC-TOTAL (Total Hydrocarbon)	0.0339089	--

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Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV																					
Emission Data Vehicle Information																								
Vehicle ID / Configuration	JFC1-5.0-J-029 / 1	Manufacturer Vehicle Configuration Number	1																					
Original Test Group Name	JFMXT05.03DP	Original Evaporative/Refueling Family	JFMXR0260NDV																					
Original Test Vehicle Model Year	2018																							
Vehicle Model																								
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F150 Super Cab 4X4																					
Leak Family Details																								
Leak Family Identifier	001	Leak Family Name	JFMXR0260NDV-001																					
Drive Sources and Fuel System Details																								
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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	JTFCAVNC06	Rated Horsepower	395																					
Displacement (liters)	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	2-Wheel Drive, Rear																					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)																					
Curb Weight (lbs)	5217	Equivalent Test Weight (pounds)	5500																					
GVWR (lbs)	7850	N/V Ratio	25.7																					
Axle Ratio	3.73																							
Transmission Type	Semi-Automatic	# of Transmission Gears	10																					
Transmission Lockup	Yes	Creeper Gear	No																					
Dynamometer Coefficients:																								
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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	44.39	0.1933	0.03931	26.94	0.1117		0.0368																	
Emission Control Device Comments	Test Request t18-0047-01; T3/L3 Evap Gasoline																							

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV									
Manufacturer Test Vehicle Comments	2018MY F150 Super Cab 4x4											
Test #	JFMX10049672	Test Procedure	23 - 2-day evap									
Exhaust Test # for this Evap Test	JFMX10048057	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	05/09/2017	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	5337	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												
<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>0.1981</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.1981</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)	0.1981	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1981	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0.1981	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1981	--										
Manufacturer Test Comments												
Linking test performed on previously waived calibration R05 for test group JFMXT05.03DN												
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	0.1981	0	0.198	0.5	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.1981	0	0.198	0.5	Pass				

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Test #	JFMX10049673	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	JFMX10048057	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/28/2017	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	5273	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)	0.2212	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2212	--

Manufacturer Test Comments

Linking test performed on previously waived calibration (R05) level for JFMXT05.03DN.

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	0.2212	0	0.221	0.5	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2212	0	0.221	0.5	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV									
Test #	JFMX10049674	Test Procedure	32 - Federal Fuel Running Loss									
Exhaust Test # for this Evap Test	JFMX10048057	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	04/28/2017	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	5284	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												
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Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0.001	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.001	--										
Manufacturer Test Comments												
Linking test performed on previously waived												
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	0.001	0	0	0.05	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.001	0	0	0.05	Pass				

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV																						
Emission Data Vehicle Information																									
Vehicle ID / Configuration	JFC1-5.0-J-029 / 2	Manufacturer Vehicle Configuration Number	2																						
Original Test Group Name	JFMXT05.03DP	Original Evaporative/Refueling Family	JFMXR0260NDV																						
Original Test Vehicle Model Year	2018																								
Vehicle Model																									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F150 Super Cab 4X4																						
Leak Family Details																									
Leak Family Identifier	001	Leak Family Name	JFMXR0260NDV-001																						
Drive Sources and Fuel System Details																									
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Drive Source and Fuel#	Drive Source	Fuel																							
1	Combustion Engine	Ethanol, Gasoline																							
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 * Correction factor) + Initial system miles																								
Odometer Correction Units	Miles																								
Engine Code	JTFCAVNC21	Rated Horsepower	395																						
Displacement (liters)	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	2-Wheel Drive, Rear																						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)																						
Curb Weight (lbs)	5217	Equivalent Test Weight (pounds)	5500																						
GVWR (lbs)	7850	N/V Ratio	25.7																						
Axle Ratio	3.73																								
Transmission Type	Semi-Automatic	# of Transmission Gears	10																						
Transmission Lockup	Yes	Creep Gear	No																						
Dynamometer Coefficients:																									
<table><tr><td colspan="3">Target Coefficients</td><td colspan="3">Set Coefficients</td><td rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</td></tr><tr><td>Coefficient Category</td><td>A (lbf)</td><td>B (lbf/mph)</td><td>C (lbf/mph**2)</td><td>A (lbf)</td><td>B (lbf/mph)</td><td>C (lbf/mph**2)</td></tr><tr><td>City/Highway/Evap</td><td>44.39</td><td>0.1933</td><td>0.03931</td><td>26.94</td><td>0.1117</td><td>0.0368</td><td>20.3</td></tr></table>				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	44.39	0.1933	0.03931	26.94	0.1117	0.0368	20.3
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	44.39	0.1933	0.03931	26.94	0.1117	0.0368	20.3																		
Emission Control Device Comments	Test Request t18-0006-01; T3B125 / ULEV125																								

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Manufacturer Test Vehicle Comments	2018MY F150 Super Cab 4x4		
Test #	JFMX10049676	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	JFMX10048057	Test Fuel Type	59 - Tier 3 E10 Premium Gasoline (10 RVP-FFV ORVR Only)
Test Date	06/20/2017	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	5422	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

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	0.003	0.01	0.2	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.008	0.003	0.01	0.2	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV						
Test #	JFMX10049769	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	04/06/2017	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	5111	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									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0107</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.0107	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL (Total Hydrocarbon)	0.0107	--							
Manufacturer Test Comments									
BETP Testing is THC Only (not OMHCE/THCE)									
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	0.0107	0	0.011	0.02	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0107	0	0.011	0.02	Pass	

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV					
Emission Data Vehicle Information								
Vehicle ID / Configuration	TBD1-3.5-J-230 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	TFMXT03.57AV	Original Evaporative/Refueling Family	TFMXR0260NDV					
Original Test Vehicle Model Year	2026							
Vehicle Model								
Represented Test Vehicle Make	FORD	Represented Test Vehicle Model	EXPEDITION					
Leak Family Details								
Leak Family Identifier	001	Leak Family Name	TFMXR0260NDV-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	0					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	TBD	Rated Horsepower	380					
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	150,000 (mi)					
Curb Weight (lbs)	5867	Equivalent Test Weight (pounds)	6500					
GVWR (lbs)	7750	N/V Ratio	0					
Axle Ratio	3.73							
Transmission Type	Semi-Automatic	# of Transmission Gears	10					
Transmission Lockup	Yes	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	40.84	0.6556	0.0279					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	0	0	0					
EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients								
	19.1							
Emission Control Device Comments	--							

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Manufacturer Test Vehicle Comments	--		

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Test #	TFMX10091441	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	05/21/2025	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	111
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3849	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			

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	558.509491	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.523	--	
FE BAG 1 (Bag 1 Fuel Economy)	15.607282	15.607282	
CH4 BAG 1 (Bag 1 Methane)	0.009	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0307	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	511.138559	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.055	--	
FE BAG 2 (Bag 2 Fuel Economy)	17.098173	17.098173	
CH4 BAG 2 (Bag 2 Methane)	0.003	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	492.776102	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.096	--	
FE BAG 3 (Bag 3 Fuel Economy)	17.719893	17.719893	
CH4 BAG 3 (Bag 3 Methane)	0.004	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0009	--	
METHANE (CH4 - Methane)	0.004647	--	
CO (Carbon Monoxide)	0.163221	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.385908	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.435683	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.323113	--	
HCHO (Formaldehyde)	0.0008	--	
MFR FE (Manufacturer Fuel Economy)	16.9	16.9	
NOX (Nitrogen Oxide)	0.012073	--	
N2O (Nitrous Oxide)	0.0006	--	
HC-NM (Non-methane Hydrocarbon)	0.006012	--	
NMOG (Non-methane organic gases)	0.006599	--	
PM (Particulate Matter)	0.00009	--	
HC-TOTAL (Total Hydrocarbon)	0.010398	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	516	516	
Optional Carbon-Related Exhaust Emissions	517	517	

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	515.9	--
Manufacturer Test Comments Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).			

Certification Summary Information Report

Test Group		VFMXT03.57AV			Evaporative/Refueling Family					VFMXR0260NDV		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.16	--	--	--	--	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.17	--	--	--	--	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	516	--	--	--	0	--	516	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	HCHO	0.0008	--	--	--	--	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0046	--	--	--	--	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0006	--	--	--	--	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0066	--	1.1	--	--	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0187	--	--	--	--	--	0.019	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0166	--	--	--	--	--	0.017	0.060	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0121	--	--	--	--	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	OPT-CREE	517	--	--	--	0	--	517	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0001	--	--	--	--	--	0	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.16	--	--	--	--	--	0.2	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.17	--	--	--	--	--	0.2	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	HCHO	0.0008	--	--	--	--	--	0.001	0.004	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0066	--	1.1	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0187	--	--	--	--	--	0.019	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0166	--	--	--	--	--	0.017	0.060	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0121	--	--	--	--	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0001	--	--	--	--	--	0	0.001	Pass

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

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Test #	TFMX10091446	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	06/12/2025	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	68
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3919	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			

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV																																																																													
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>724.911384</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>1.648</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>12.195877</td><td>12.195877</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.053</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.3477</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>590.919345</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.077</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>15.035654</td><td>15.035654</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.003</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>541.718638</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.099</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>16.393064</td><td>16.393064</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.005</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0027</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.013745</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.409099</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.546167</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.512079</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.746299</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>14.7</td><td>14.7</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.019571</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.066346</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.07291</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.080551</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)	724.911384	--	CO BAG 1 (Bag 1 Carbon Monoxide)	1.648	--	FE BAG 1 (Bag 1 Fuel Economy)	12.195877	12.195877	CH4 BAG 1 (Bag 1 Methane)	0.053	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.3477	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	590.919345	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.077	--	FE BAG 2 (Bag 2 Fuel Economy)	15.035654	15.035654	CH4 BAG 2 (Bag 2 Methane)	0.003	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	541.718638	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.099	--	FE BAG 3 (Bag 3 Fuel Economy)	16.393064	16.393064	CH4 BAG 3 (Bag 3 Methane)	0.005	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0027	--	METHANE (CH4 - Methane)	0.013745	--	CO (Carbon Monoxide)	0.409099	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.546167	--	DT-EER (Drive Trace Energy Economy Rating)	0.512079	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.746299	--	MFR FE (Manufacturer Fuel Economy)	14.7	14.7	NOX (Nitrogen Oxide)	0.019571	--	HC-NM (Non-methane Hydrocarbon)	0.066346	--	NMOG (Non-methane organic gases)	0.07291	--	HC-TOTAL (Total Hydrocarbon)	0.080551	--	
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		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>606</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	606	--																																																																								
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																																													
	Carbon-Related Exhaust Emissions	606	--																																																																													
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>605.2</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	605.2	--																																																																								
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	Carbon dioxide	605.2	--																																																																													
Manufacturer Test Comments	Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).																																																																															

Certification Summary Information Report

Test Group		VFMXT03.57AV			Evaporative/Refueling Family					VFMXR0260NDV		
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	0.41	--	--	--	--	--	0.4	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.07	--	--	--	--	--	0.1	0.4	Pass
CA	50,000 miles	California LEV-III ULEV50	CO	0.41	--	--	--	--	--	0.4	12.5	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Test #	TFMX10091442	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	05/21/2025	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	111
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3849	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)	0.000834	--
CO (Carbon Monoxide)	0.035525	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.61403	--
DT-EER (Drive Trace Energy Economy Rating)	-0.653534	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.19048	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	25.9	25.9
NOX (Nitrogen Oxide)	0.00432	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.000731	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	337	337

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	337.2	--

Manufacturer Test Comments

Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).

Certification Summary Information Report

Test Group		VFMXT03.57AV			Evaporative/Refueling Family					VFMXR0260NDV		
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	337	--	--	--	0	--	337	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0	--	1.03	--	--	--	0	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0043	--	--	--	--	--	0.004	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0043	--	--	--	--	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0	--	1.03	--	--	--	0	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0043	--	--	--	--	--	0.004	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0043	--	--	--	--	--	0.004	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	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Test #	TFMX10091444	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	05/21/2025	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	111
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3880	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			

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV																																																																		
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>876.102035</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.576</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>9.964375</td><td>9.964375</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.011</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0251</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>446.729065</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.294</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>19.528235</td><td>19.528235</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.005</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0112</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.006177</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.356939</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.10053</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.883166</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.66401</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>16.1</td><td>16.1</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.006475</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.013851</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.014266</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.000117</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.019834</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)	876.102035	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.576	--	FE BAG 1 (Bag 1 Fuel Economy)	9.964375	9.964375	CH4 BAG 1 (Bag 1 Methane)	0.011	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0251	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	446.729065	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.294	--	FE BAG 2 (Bag 2 Fuel Economy)	19.528235	19.528235	CH4 BAG 2 (Bag 2 Methane)	0.005	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0112	--	METHANE (CH4 - Methane)	0.006177	--	CO (Carbon Monoxide)	0.356939	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.10053	--	DT-EER (Drive Trace Energy Economy Rating)	-0.883166	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.66401	--	MFR FE (Manufacturer Fuel Economy)	16.1	16.1	NOX (Nitrogen Oxide)	0.006475	--	HC-NM (Non-methane Hydrocarbon)	0.013851	--	NMOG (Non-methane organic gases)	0.014266	--	PM (Particulate Matter)	0.000117	--	HC-TOTAL (Total Hydrocarbon)	0.019834	--		
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Manufacturer Test Comments	Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).																																																																				

Certification Summary Information Report

Test Group		VFMXT03.57AV				Evaporative/Refueling Family				VFMXR0260NDV		
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	0.0001	--	--	--	--	--	0	0.006	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0001	--	--	--	--	--	0	0.006	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV																																	
Test #	TFMX10091445	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	06/10/2025	Fuel	N/A																																	
Fuel Batch ID	373-B	Fuel Calibration Number	110																																	
Vehicle Class	N/A	DF Type	Mfr. Determined																																	
Verify Test Lab ID	APTL																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	3905	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																																	
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Manufacturer Test Comments	Test was ran prior to June 17, 2025 and utilized the fuel properties outlined in 40 CFR 600.113-12(f) prior to the multipollutant rule (Tier 4) effective date and MFR FE was calculated per 40 CFR 600.113-12(h)(1).																																			

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	111
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	04/30/2025
Fuel Batch Calibration Effective Date	04/30/2025	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.751
Fuel Ethanol Volume Percent (%)	9.5	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	38.961	Fuel Carbon Mass Fraction (E10)	0.834
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	375-B	Fuel Calibration Number	68
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	06/03/2025
Fuel Batch Calibration Effective Date	06/03/2025	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	38.786	Fuel Carbon Mass Fraction (E10)	0.832
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	13
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/21/2017
Fuel Batch Calibration Effective Date	02/23/2017	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	0.747
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17942
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	110
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/31/2025
Fuel Batch Calibration Effective Date	05/31/2025	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group	VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	10.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	38.579	Fuel Carbon Mass Fraction (E10)	0.833
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFMXT03.57AV			Evaporative/Refueling Family			VFMXR0260NDV	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
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	--	--	--	--	--	--	--	1.7
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	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.060
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
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	--	--	--	--	--	--	--	1.7
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	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.060
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.001

Certification Summary Information Report

Test Group		VFMXT03.57AV			Evaporative/Refueling Family			VFMXR0260NDV	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
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	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
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	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

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

Certification Summary Information Report

Test Group		VFMXT03.57AV			Evaporative/Refueling Family			VFMXR0260NDV	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
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			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
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		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 50	
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

Evaporative/Refueling Standards

Evaporative/Refueling Family		VFMXR0260NDV		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	0.003	

Certification Summary Information Report

Test Group		VFMXT03.57AV	Evaporative/Refueling Family		VFMXR0260NDV
Evaporative/Refueling Family		VFMXR0260NDV	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		VFMXR0260NDV	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	--	0.500	0
Evaporative/Refueling Family		VFMXR0260NDV	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
Evaporative/Refueling Family		VFMXR0260NDV	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		VFMXR0260NDV	Cert Region		California + CAA Section 177 states
Cert/In-Use Code		Both	Standard Level		California LEV-III Zero Evap (Option 2)
Test Procedure		Evap Canister Bleed Test			
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0

Certification Summary Information Report

Test Group		VFMXT03.57AV		Evaporative/Refueling Family		VFMXR0260NDV	
Evaporative/Refueling Family		VFMXR0260NDV		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	--	0.500	0		
Evaporative/Refueling Family		VFMXR0260NDV		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	0.003		
Evaporative/Refueling Family		VFMXR0260NDV		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	--	0.500	0		
Evaporative/Refueling Family		VFMXR0260NDV		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	--	0.500	0		

Certification Summary Information Report

Test Group		VFMXT03.57AV	Evaporative/Refueling Family	VFMXR0260NDV
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		VFMXT03.57AV	Evaporative/Refueling Family		VFMXR0260NDV
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		VFMXT03.57AV	Evaporative/Refueling Family		VFMXR0260NDV
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		VFMXT03.57AV	Evaporative/Refueling Family		VFMXR0260NDV
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	