

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Certificate Number	VFMXD03.57BZ-006	CARB Executive Order #	--
Certificate Issue Date	05/26/2026	Certificate Revision Date	--
Certificate Effective Date	05/26/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	04/21/2026 03:35:57 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 fuel 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	M7, HDV2
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	VFMXGPGNND4A	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	Yes		
Introduction into Commerce Date	10/05/2026	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	VFMXT03.0JP1
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	3
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	Update for Correction	Submission/Correction Date	04/21/2026 12:37:34 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	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	215	Number of Primary Canisters	1
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	1
Mfr Evaporative/Refueling Family Comments	(3.5L GTDI & 3.5L PFDI ; 30.8 Gal. Tank; Complete and Incomplete ; ORVR)		
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
VFMXR0215GDJ-001	50 State	0.02	--

Certification Summary Information Report

Test Group		VFMXD03.57BZ		Evaporative/Refueling Family		VFMXR0215GDJ	
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	467 - TRANSIT T350 VAN 4WD	Federal	All Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	465 - TRANSIT T350 VAN 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	470 - TRANSIT T350 WAGON 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	465 - TRANSIT T350 VAN 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	472 - TRANSIT T350 WAGON 4WD	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	492 - TRANSIT T350 CUTAWAY 4WD	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	487 - TRANSIT T350 CHASSIS CAB 4WD	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	470 - TRANSIT T350 WAGON 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	490 - TRANSIT T350 CUTAWAY 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	472 - TRANSIT T350 WAGON 4WD	Federal	All Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	485 - TRANSIT T350 CHASSIS CAB 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	490 - TRANSIT T350 CUTAWAY 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	487 - TRANSIT T350 CHASSIS CAB 4WD	Federal	All Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	467 - TRANSIT T350 VAN 4WD	California + CAA Section 177 states	All Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	485 - TRANSIT T350 CHASSIS CAB 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	492 - TRANSIT T350 CUTAWAY 4WD	Federal	All Wheel Drive	Semi-Automatic	10	Yes
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		V-shaped engine	
Camless Valvetrain Indicator		No		Oil Viscosity/Classification		SAE 5W-30 / ILSAC GF-7	
Number of Cylinders/Rotors		6		Mechanically Variable Compression Ratio Indicator		N	

Certification Summary Information Report

Test Group		VFMXD03.57BZ		Evaporative/Refueling Family		VFMXR0215GDJ					
After Treatment Device(s) (ATD)											
ATD Number		ATD Type		ATD Precious Metal		Substrate Material		Substrate Construction			
1		Three-way catalyst		Palladium + Rhodium		Ceramic		Monolith			
Mfr After Treatment Device (ATD) Comments		2TWC									
Direct Ozone Reduction (DOR) Device		Not Equipped									
Mfr Emission Control Device Comments		--									
Engine Configuration Number 1											
Engine Displacement (liters)		3.5		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		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		dual intake & exhaust									
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		No		Cooled Exhaust Gas Recirculation		No					
EGR Type		--		Exhaust Gas Recirculation Description if 'Other'		--					
Closed Loop Air Injection System		No		Air Injection Type if 'Other'		--					
Air Injection Type		Not Applicable									
Mfr Engine Configuration Comments		--									
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	TFMX91006226	--	TFMX10088912	--	TFMX91006225	--	228.2	--	286.1	1	

Certification Summary Information Report

Test Group		VFMXD03.57BZ		Evaporative/Refueling Family		VFMXR0215GDJ	
SFTP LEV-III Official Test Numbers							
Test Group Fuel		FTP		US06		SC03	
Gasoline		TFMX91006226		--		TFMX10088912	

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
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Emission Data Vehicle Information

Vehicle ID / Configuration	LTH1-3.5-434 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	LFMXD03.57BZ	Original Evaporative/Refueling Family	LFMXF0215GDJ
Original Test Vehicle Model Year	2020		

Vehicle Model

Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	T350 Transit >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	LTTHURNL00	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)	9500	Equivalent Test Weight (pounds)	10000
GVWR (lbs)	11000	N/V Ratio	30
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	70.62	0.3614	0.07631	27.36	0.2182	0.07439	37.3
US06	70.62	0.3614	0.07631	27.36	0.2182	0.07439	N/A

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ						
Emission Control Device Comments	T20-0147-01 T350 >10K (30.8 gal fuel tank)								
Manufacturer Test Vehicle Comments	T350 Regular Cab 195/75R16C representing T350 Incomplete 205/75R16								
Test #	LFMX10075474	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	04/27/2022	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	4001	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>0.004</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.004	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL (Total Hydrocarbon)	0.004	--							
Manufacturer Test Comments									
Measured NMOG 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	0.004	0	0.004	0.03	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.004	0	0.004	0.03	Pass	

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ					
Emission Data Vehicle Information								
Vehicle ID / Configuration	LTH1-3.5-J-448 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	LFMXT03.55HM	Original Evaporative/Refueling Family	LFMXR0215GDH					
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"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline, Ethanol</td> </tr> </tbody> </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	32.3					
Axle Ratio	4.1							
Transmission Type	Semi-Automatic	# of Transmission Gears	10					
Transmission Lockup	Yes	Creep Gear	No					

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
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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	64.27	0.4695	0.04565	39.41	0.103	0.04676	26.9
Cold CO	64.27	0.4695	0.04565	39.41	0.103	0.04676	N/A
US06	64.27	0.4695	0.04565	39.41	0.103	0.04676	N/A

Emission Control Device Comments	4K Cert E10 T20-0089-01 / E85 T20-0092-01
Manufacturer Test Vehicle Comments	Transit AWD MDPV (30.8 gal tank)

Test #	LFMX10060451	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	LFMX10060151	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/12/2019	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	4963	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
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)	0.2022	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2022	--

Manufacturer Test Comments	--
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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	0.2022	0	0.202	0.6	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2022	0	0.202	0.6	Pass

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ																											
Test #	LFMX10060460	Test Procedure	32 - Federal Fuel Running Loss																											
Exhaust Test # for this Evap Test	LFMX10060151	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																											
Test Date	04/12/2019	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	4963	Odometer Units	M																											
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																											
State of Charge Delta	No																													
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	--																												
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--																												
Manufacturer Test Comments --																														
<table border="1"> <thead> <tr> <th>Certification Region</th> <th>Useful Life</th> <th>Standard Level</th> <th>Emission Name</th> <th>Rounded Result</th> <th>Add DF</th> <th>Certification Level</th> <th>Standard</th> <th>Pass/Fail</th> </tr> </thead> <tbody> <tr> <td>Fed</td> <td>150,000 miles</td> <td>Federal Tier 3 Evap</td> <td>HC-TOTAL-EQUIV</td> <td>0</td> <td>0</td> <td>0</td> <td>0.05</td> <td>Pass</td> </tr> <tr> <td>CA</td> <td>150,000 miles</td> <td>California LEV-III Zero Evap (Option 2)</td> <td>OMHCE</td> <td>0</td> <td>0</td> <td>0</td> <td>0.05</td> <td>Pass</td> </tr> </tbody> </table>				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 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	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ									
Test #	LFMX10060466	Test Procedure	24 - Federal fuel refueling test (ORVR)									
Exhaust Test # for this Evap Test	LFMX10060151	Test Fuel Type	59 - Tier 3 E10 Premium Gasoline (10 RVP-FFV ORVR Only)									
Test Date	03/04/2019	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	4804	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)	0.009	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.009	--										
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	0.009	0	0.01	0.2	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.009	0	0.01	0.2	Pass				

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
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Emission Data Vehicle Information

Vehicle ID / Configuration	STH1-3.5-J-938 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TFMXD03.57BZ	Original Evaporative/Refueling Family	TFMXR0215GDJ
Original Test Vehicle Model Year	2026		
Vehicle Model			
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	T350Chassis Cab

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	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	STTHURNK00	Rated Horsepower	300
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)	5078	Equivalent Test Weight (pounds)	10000
GVWR (lbs)	11000	N/V Ratio	29.3
Axle Ratio	3.73		
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	70.31	0.3554	0.08414	28.57	0.3981	0.08126	39.8
US06	70.31	0.3554	0.08414	28.57	0.3981	0.08126	N/A

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Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Test #	TFMX10088909	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	04/16/2024	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	85
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3808	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)	775.81301	--
FE BAG 1 (Bag 1 Fuel Economy)	11.09189	11.09189
CO2 BAG 2 (Bag 2 Carbon Dioxide)	708.2904	--
FE BAG 2 (Bag 2 Fuel Economy)	12.25998	12.25998
CO2 BAG 3 (Bag 3 Carbon Dioxide)	728.43114	--
FE BAG 3 (Bag 3 Fuel Economy)	11.93736	11.93736
METHANE (CH4 - Methane)	0.02592	--
CO (Carbon Monoxide)	1.75593	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.094636	--
DT-EER (Drive Trace Energy Economy Rating)	-0.614293	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.382706	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	11.9	11.9
NOX (Nitrogen Oxide)	0.0399	--
N2O (Nitrous Oxide)	0.0081	--
HC-NM (Non-methane Hydrocarbon)	0.057628	--
NMOG (Non-methane organic gases)	0.06341	--
PM (Particulate Matter)	0.007553	--
HC-TOTAL (Total Hydrocarbon)	0.08232	--

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ									
	<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>731</td><td>999</td></tr><tr><td>Optional Carbon-Related Exhaust Emissions</td><td>734</td><td>999</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	731	999	Optional Carbon-Related Exhaust Emissions	734	999		
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE									
	Carbon-Related Exhaust Emissions	731	999									
	Optional Carbon-Related Exhaust Emissions	734	999									
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>727.8</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	727.8	--					
Test Result Name	Unrounded Test Result	Verify Calculated CO2										
Carbon dioxide	727.8	--										
Manufacturer Test Comments	--											

Certification Summary Information Report

Test Group		VFMXD03.57BZ			Evaporative/Refueling Family					VFMXR0215GDJ		
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 HD Class 3 Bin 270	CO	1.76	--	--	--	0	--	1.8	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	CO2	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	HCHO	0	--	--	--	0	--	0	0.006	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	METHANE	0.0259	--	--	--	0	--	0.026	0.050	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	N2O	0.0081	--	--	--	0	--	0.008	0.050	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG	0.0634	--	1.1	--	0	--	0.063	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG+NOX	0.1033	--	--	--	--	--	0.103	0.270	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NOX	0.0399	--	--	--	0	--	0.04	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	PM	0.0076	--	--	--	0	--	0.008	0.010	Pass
CA	150,000 miles	California LEV-III ULEV270	CO	1.76	--	--	--	0	--	1.8	4.2	Pass
CA	150,000 miles	California LEV-III ULEV270	CO2	999	--	--	--	0	--	999	--	--
CA	150,000 miles	California LEV-III ULEV270	HCHO	0	--	--	--	0	--	0	0.006	Pass
CA	150,000 miles	California LEV-III ULEV270	METHANE	0.0259	--	--	--	0	--	0.026	0.050	Pass
CA	150,000 miles	California LEV-III ULEV270	N2O	0.0081	--	--	--	0	--	0.008	0.050	Pass
CA	150,000 miles	California LEV-III ULEV270	NMOG	0.0634	--	1.1	--	0	--	0.063	999.999	Pass
CA	150,000 miles	California LEV-III ULEV270	NMOG+NOX	0.1033	--	--	--	--	--	0.103	0.270	Pass
CA	150,000 miles	California LEV-III ULEV270	NOX	0.0399	--	--	--	0	--	0.04	999.999	Pass
CA	150,000 miles	California LEV-III ULEV270	PM	0.0076	--	--	--	0	--	0.008	0.010	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Test #	TFMX10088914	Test Procedure	52 - Fed. fuel 50 F exh.
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/19/2024	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	84
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3734	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)	851.21178	--
FE BAG 1 (Bag 1 Fuel Economy)	10.17439	10.17439
CO2 BAG 2 (Bag 2 Carbon Dioxide)	717.4768	--
FE BAG 2 (Bag 2 Fuel Economy)	12.17579	12.17579
CO2 BAG 3 (Bag 3 Carbon Dioxide)	722.25749	--
FE BAG 3 (Bag 3 Fuel Economy)	12.08971	12.08971
METHANE (CH4 - Methane)	0.01555	--
CO (Carbon Monoxide)	0.92678	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.12221	--
DT-EER (Drive Trace Energy Economy Rating)	0.232798	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.51694	--
HCHO (Formaldehyde)	0.000962	--
MFR FE (Manufacturer Fuel Economy)	11.7	11.7
NOX (Nitrogen Oxide)	0.01357	--
N2O (Nitrous Oxide)	0.01	--
HC-NM (Non-methane Hydrocarbon)	0.054353	--
NMOG (Non-methane organic gases)	0.06646	--
HC-TOTAL (Total Hydrocarbon)	0.07506	--

Certification Summary Information Report

Test Group		VFMXD03.57BZ			Evaporative/Refueling Family				VFMXR0215GDJ			
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		749		--						
		Optional Carbon-Related Exhaust Emissions		752		--						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		746.5		--						
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
CA	4,000 miles	California LEV-III ULEV270	CO	0.93	--	--	--	--	--	0.9	4.2	Pass
CA	4,000 miles	California LEV-III ULEV270	HCHO	0.001	--	--	--	--	--	0.001	0.020	Pass
CA	4,000 miles	California LEV-III ULEV270	NMOG	0.0665	--	1.1	--	--	--	0.066	999.999	Pass
CA	4,000 miles	California LEV-III ULEV270	NMOG+NOX	0.0801	--	--	--	--	--	0.08	0.540	Pass
CA	4,000 miles	California LEV-III ULEV270	NOX	0.0136	--	--	--	--	--	0.014	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Test #	TFMX10088953	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	04/23/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	168
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3874	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)	780.164	--
FE BAG 1 (Bag 1 Fuel Economy)	11.22636	11.22636
CO2 BAG 2 (Bag 2 Carbon Dioxide)	721.986	--
FE BAG 2 (Bag 2 Fuel Economy)	12.260296	12.260296
CO2 BAG 3 (Bag 3 Carbon Dioxide)	733.351	--
FE BAG 3 (Bag 3 Fuel Economy)	12.019737	12.019737
METHANE (CH4 - Methane)	0.03244	--
CO (Carbon Monoxide)	3.08628	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.290757	--
DT-EER (Drive Trace Energy Economy Rating)	-0.387286	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.921016	--
MFR FE (Manufacturer Fuel Economy)	12	12
NOX (Nitrogen Oxide)	0.103258	--
N2O (Nitrous Oxide)	0.0306	--
HC-NM (Non-methane Hydrocarbon)	0.041	--
NMOG (Non-methane organic gases)	0.042604	--
HC-TOTAL (Total Hydrocarbon)	0.071871	--

Certification Summary Information Report

Test Group		VFMXD03.57BZ				Evaporative/Refueling Family				VFMXR0215GDJ																													
<table><tr><td colspan="2">Test Result Name</td><td colspan="4">Unrounded Test Result</td><td colspan="3">Verify Calculated CREE/OPT-CREE</td></tr><tr><td colspan="2">Carbon-Related Exhaust Emissions</td><td colspan="4">742</td><td colspan="3">742</td></tr><tr><td colspan="2">Optional Carbon-Related Exhaust Emissions</td><td colspan="4">752</td><td colspan="3">752</td></tr></table>													Test Result Name		Unrounded Test Result				Verify Calculated CREE/OPT-CREE			Carbon-Related Exhaust Emissions		742				742			Optional Carbon-Related Exhaust Emissions		752				752		
Test Result Name		Unrounded Test Result				Verify Calculated CREE/OPT-CREE																																	
Carbon-Related Exhaust Emissions		742				742																																	
Optional Carbon-Related Exhaust Emissions		752				752																																	
<table><tr><td colspan="2">Test Result Name</td><td colspan="4">Unrounded Test Result</td><td colspan="3">Verify Calculated CO2</td></tr><tr><td colspan="2">Carbon dioxide</td><td colspan="4">737.2</td><td colspan="3">--</td></tr></table>													Test Result Name		Unrounded Test Result				Verify Calculated CO2			Carbon dioxide		737.2				--											
Test Result Name		Unrounded Test Result				Verify Calculated CO2																																	
Carbon dioxide		737.2				--																																	
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 HD Class 3 Bin 270	CO	3.09	--	--	--	0	--	3.1	4.2	Pass																											
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	CO2	742	--	--	--	0	--	742	--	--																											
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	METHANE	0.0324	--	--	--	0	--	0.032	0.050	Pass																											
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	N2O	0.0306	--	--	--	0	--	0.031	0.050	Pass																											
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG	0.0426	--	1.1	--	0	--	0.043	999.999	Pass																											
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG+NOX	0.1459	--	--	--	--	--	0.146	0.270	Pass																											
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NOX	0.1033	--	--	--	0	--	0.103	999.999	Pass																											
CA	150,000 miles	California LEV-III ULEV270	CO	3.09	--	--	--	0	--	3.1	4.2	Pass																											
CA	150,000 miles	California LEV-III ULEV270	CO2	742	--	--	--	0	--	742	--	--																											
CA	150,000 miles	California LEV-III ULEV270	METHANE	0.0324	--	--	--	0	--	0.032	0.050	Pass																											
CA	150,000 miles	California LEV-III ULEV270	N2O	0.0306	--	--	--	0	--	0.031	0.050	Pass																											
CA	150,000 miles	California LEV-III ULEV270	NMOG	0.0426	--	1.1	--	0	--	0.043	999.999	Pass																											
CA	150,000 miles	California LEV-III ULEV270	NMOG+NOX	0.1459	--	--	--	--	--	0.146	0.270	Pass																											
CA	150,000 miles	California LEV-III ULEV270	NOX	0.1033	--	--	--	0	--	0.103	999.999	Pass																											
NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.																																							

NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Test #	TFMX91006226	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	02/14/2025	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4354	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)	789.1627808	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	701.208252	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	729.0137939	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.03527	--
CO (Carbon Monoxide)	2.6112583	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.3433022	--
DT-EER (Drive Trace Energy Economy Rating)	0.3218674	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.111788	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0427115	--
N2O (Nitrous Oxide)	0.0096607	--
HC-NM (Non-methane Hydrocarbon)	0.0867449	--
NMOG (Non-methane organic gases)	0.0952771	--
PM (Particulate Matter)	0.0075389	--
HC-TOTAL (Total Hydrocarbon)	0.1212161	--

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Certification Summary Information Report

Test Group		VFMXD03.57BZ				Evaporative/Refueling Family				VFMXR0215GDJ		
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 HD Class 3 Bin 270	CO	2.61	--	--	--	0	--	2.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	CO2	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	METHANE	0.0353	--	--	--	0	--	0.035	0.050	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	N2O	0.0097	--	--	--	0	--	0.01	0.050	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG	0.0953	--	1.1	--	0	--	0.095	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG+NOX	0.138	--	--	--	--	--	0.138	0.270	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NOX	0.0427	--	--	--	0	--	0.043	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	PM	0.0075	--	--	--	0	--	0.008	0.010	Pass
CA	150,000 miles	California LEV-III ULEV270	CO	2.61	--	--	--	0	--	2.6	4.2	Pass
CA	150,000 miles	California LEV-III ULEV270	CO2	999	--	--	--	0	--	999	--	--
CA	150,000 miles	California LEV-III ULEV270	METHANE	0.0353	--	--	--	0	--	0.035	0.050	Pass
CA	150,000 miles	California LEV-III ULEV270	N2O	0.0097	--	--	--	0	--	0.01	0.050	Pass
CA	150,000 miles	California LEV-III ULEV270	NMOG	0.0953	--	1.1	--	0	--	0.095	999.999	Pass
CA	150,000 miles	California LEV-III ULEV270	NMOG+NOX	0.138	--	--	--	--	--	0.138	0.270	Pass
CA	150,000 miles	California LEV-III ULEV270	NOX	0.0427	--	--	--	0	--	0.043	999.999	Pass
CA	150,000 miles	California LEV-III ULEV270	PM	0.0075	--	--	--	0	--	0.008	0.010	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ																														
Test #	TFMX10088954	Test Procedure	3 - HWFE																														
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																														
Test Date	04/23/2024	Fuel	Gasoline																														
Fuel Batch ID	CERT_5	Fuel Calibration Number	168																														
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	DF Type	Mfr. Determined																														
Verify Test Lab ID	APTL																																
E10 Evaporative Test Measurement Method	--																																
Test Start Odometer Reading	3874	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																																	
<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>METHANE (CH4 - Methane)</td> <td>0.024368</td> <td>--</td> </tr> <tr> <td>CO (Carbon Monoxide)</td> <td>3.74576</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>0.793217</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>-0.498543</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>1.13003</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>15.5</td> <td>15.5</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.162898</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gases)</td> <td>0.016336</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.038923</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	METHANE (CH4 - Methane)	0.024368	--	CO (Carbon Monoxide)	3.74576	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.793217	--	DT-EER (Drive Trace Energy Economy Rating)	-0.498543	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.13003	--	MFR FE (Manufacturer Fuel Economy)	15.5	15.5	NOX (Nitrogen Oxide)	0.162898	--	NMOG (Non-methane organic gases)	0.016336	--	HC-TOTAL (Total Hydrocarbon)	0.038923	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																															
METHANE (CH4 - Methane)	0.024368	--																															
CO (Carbon Monoxide)	3.74576	--																															
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.793217	--																															
DT-EER (Drive Trace Energy Economy Rating)	-0.498543	--																															
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.13003	--																															
MFR FE (Manufacturer Fuel Economy)	15.5	15.5																															
NOX (Nitrogen Oxide)	0.162898	--																															
NMOG (Non-methane organic gases)	0.016336	--																															
HC-TOTAL (Total Hydrocarbon)	0.038923	--																															
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Carbon dioxide	568.1	--																															
Manufacturer Test Comments	--																																

Certification Summary Information Report

Test Group		VFMXD03.57BZ			Evaporative/Refueling Family					VFMXR0215GDJ		
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 HD Class 3 Bin 270	CO2	574	--	--	--	0	--	574	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG	0.0163	--	1.03	--	0	--	0.016	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG+NOX	0.1792	--	--	--	--	--	0.179	0.270	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NOX	0.1629	--	--	--	0	--	0.163	999.999	Pass
CA	150,000 miles	California LEV-III ULEV270	CO2	574	--	--	--	0	--	574	--	--
CA	150,000 miles	California LEV-III ULEV270	NMOG	0.0163	--	1.03	--	0	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-III ULEV270	NMOG+NOX	0.1792	--	--	--	--	--	0.179	0.270	Pass
CA	150,000 miles	California LEV-III ULEV270	NOX	0.1629	--	--	--	0	--	0.163	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Test #	TFMX91006225	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	02/14/2025	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000), MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4376	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)	0.0158581	--	
CO (Carbon Monoxide)	1.8189852	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.7976415	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.2516986	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.8531823	--	
MFR FE (Manufacturer Fuel Economy)	15.1251392	--	
NOX (Nitrogen Oxide)	0.0724105	--	
N2O (Nitrous Oxide)	0.0267604	--	
HC-NM (Non-methane Hydrocarbon)	0.0082855	--	
NMOG (Non-methane organic gases)	0.0085341	--	
HC-TOTAL (Total Hydrocarbon)	0.0237845	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	9999.9999999	999	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	570.3912964	--	
Manufacturer Test Comments	None		

Certification Summary Information Report

Test Group		VFMXD03.57BZ			Evaporative/Refueling Family					VFMXR0215GDJ		
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 HD Class 3 Bin 270	CO2	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG	0.0085	--	1.03	--	0	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NMOG+NOX	0.0809	--	--	--	--	--	0.081	0.270	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NOX	0.0724	--	--	--	0	--	0.072	999.999	Pass
CA	150,000 miles	California LEV-III ULEV270	CO2	999	--	--	--	0	--	999	--	--
CA	150,000 miles	California LEV-III ULEV270	NMOG	0.0085	--	1.03	--	0	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III ULEV270	NMOG+NOX	0.0809	--	--	--	--	--	0.081	0.270	Pass
CA	150,000 miles	California LEV-III ULEV270	NOX	0.0724	--	--	--	0	--	0.072	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CO2 Emission name is a Verify-calculated value.

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ																																	
Test #	TFMX10088934	Test Procedure	16 - Hot 1435 LA92																																	
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																	
Test Date	04/16/2024	Fuel	Gasoline																																	
Fuel Batch ID	373-B	Fuel Calibration Number	85																																	
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	DF Type	Mfr. Determined																																	
Verify Test Lab ID	APTL																																			
E10 Evaporative Test Measurement Method	--																																			
Test Start Odometer Reading	3840	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																																				
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Test Result Name	Unrounded Test Result	Verify Calculated CO2																																		
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Manufacturer Test Comments	--																																			

Certification Summary Information Report

Test Group		VFMXD03.57BZ				Evaporative/Refueling Family				VFMXR0215GDJ		
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 HD Class 3 Bin 270	NMOG	0.0144	--	1.03	--	--	--	0.014	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 270	NOX	0.134	--	--	--	--	--	0.134	999.999	Pass

Certification Summary Information Report

Test Group		VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Test #	TFMX10088912		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	04/18/2024		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	4968		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)	
METHANE (CH4 - Methane)		0.029962	--	
CO (Carbon Monoxide)		2.52535	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)		0.012644	--	
DT-EER (Drive Trace Energy Economy Rating)		-0.092832	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)		0.384788	--	
MFR FE (Manufacturer Fuel Economy)		9.5	9.5	
NOX (Nitrogen Oxide)		0.060393	--	
NMOG (Non-methane organic gases)		0.013501	--	
PM (Particulate Matter)		0.006	--	
HC-TOTAL (Total Hydrocarbon)		0.045164	--	
Test Result Name		Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions		914	--	
Test Result Name		Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide		909.8	--	
Manufacturer Test Comments		--		

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
Fuel Properties			
Fuel Batch ID	CERT_5	Fuel Calibration Number	168
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	02/29/2024
Fuel Batch Calibration Effective Date	02/29/2024	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)	18548
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	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	28637	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/26/2021
Fuel Batch Calibration Effective Date	08/26/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17894
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	84
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/29/2024
Fuel Batch Calibration Effective Date	02/29/2024	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group	VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
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 (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17898
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	--

Certification Summary Information Report

Test Group	VFMXD03.57BZ				Evaporative/Refueling Family			VFMXR0215GDJ		
Consolidated List of Standards										
Exhaust Standards										
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Both		
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)				Standard Level			California LEV-III ULEV270		
Fuel	Gasoline				Test Procedure			Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	4.2	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	6.0	
150,000 miles	CO2	--	--	--	--	--	--	0	999.999	
150,000 miles	HCHO	--	--	--	--	--	--	0	0.006	
150,000 miles	METHANE	--	--	--	--	--	--	0	0.050	
150,000 miles	METHANE-COMB	--	--	--	--	--	--	--	0.050	
150,000 miles	N2O	--	--	--	--	--	--	0	0.050	
150,000 miles	N2O-COMB	--	--	--	--	--	--	--	0.05	
150,000 miles	NMOG	--	--	1.1	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.270	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.550	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	
150,000 miles	PM	--	--	--	--	--	--	0	0.010	
150,000 miles	PM-COMP	--	--	--	--	--	--	--	0.007	
Cert Region	Federal				Cert/In-Use Code			Both		
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)				Standard Level			Federal Tier 3 HD Class 3 Bin 270		
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	CO2	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.270	
150,000 miles	NOX	--	--	--	--	--	--	0	999.999	

Certification Summary Information Report

Test Group		VFMXD03.57BZ			Evaporative/Refueling Family			VFMXR0215GDJ	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		HDV2 (Federal HD chassis Class 3 GVW 10001-14000)			Standard Level			Federal Tier 3 HD Class 3 Bin 270	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	4.2
150,000 miles	CO-COMP	--	--	--	--	--	--	--	6.0
150,000 miles	CO2	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0	0.006
150,000 miles	METHANE	--	--	--	--	--	--	0	0.050
150,000 miles	METHANE-COMB	--	--	--	--	--	--	--	0.050
150,000 miles	N2O	--	--	--	--	--	--	0	0.050
150,000 miles	N2O-COMB	--	--	--	--	--	--	--	0.050
150,000 miles	NMOG	--	--	1.1	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.270
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.550
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.010
150,000 miles	PM-COMP	--	--	--	--	--	--	--	0.007

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		HDV2 (Federal HD chassis Class 3 GVW 10001-14000)			Standard Level			Federal Tier 3 HD Class 3 Bin 270	
Fuel		Gasoline			Test Procedure			Hot 1435 LA92	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		VFMXD03.57BZ			Evaporative/Refueling Family			VFMXR0215GDJ	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)			Standard Level			California LEV-III ULEV270	
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	CO2	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.270
150,000 miles	NOX	--	--	--	--	--	--	0	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)			Standard Level			California LEV-III ULEV270	
Fuel		Gasoline			Test Procedure			Fed. fuel 50 F exh.	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	--	--	--	--	4.2
4,000 miles	HCHO	--	--	--	--	--	--	--	0.020
4,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.540
4,000 miles	NOX	--	--	--	--	--	--	--	999.999

Evaporative/Refueling Standards

Evaporative/Refueling Family		VFMXR0215GDJ		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	--	0.600	0		

Certification Summary Information Report

Test Group		VFMXD03.57BZ		Evaporative/Refueling Family		VFMXR0215GDJ	
Evaporative/Refueling Family		VFMXR0215GDJ		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	--	0.030	0		
Evaporative/Refueling Family		VFMXR0215GDJ		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	--	0.600	0		
Evaporative/Refueling Family		VFMXR0215GDJ		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		
Evaporative/Refueling Family		VFMXR0215GDJ		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	--	0.600	0		
Evaporative/Refueling Family		VFMXR0215GDJ		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0		

Certification Summary Information Report

Test Group		VFMXD03.57BZ		Evaporative/Refueling Family		VFMXR0215GDJ	
Evaporative/Refueling Family		VFMXR0215GDJ		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	--	0.600	0		
Evaporative/Refueling Family		VFMXR0215GDJ		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		VFMXR0215GDJ		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		VFMXR0215GDJ		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	--	0.030	0		

Certification Summary Information Report

Test Group		VFMXD03.57BZ	Evaporative/Refueling Family	VFMXR0215GDJ
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		VFMXD03.57BZ	Evaporative/Refueling Family		VFMXR0215GDJ
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		VFMXD03.57BZ	Evaporative/Refueling Family		VFMXR0215GDJ
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		VFMXD03.57BZ	Evaporative/Refueling Family		VFMXR0215GDJ
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	