

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Certificate Number	VFMXD07.363H-018	CARB Executive Order #	--
Certificate Issue Date	07/09/2026	Certificate Revision Date	--
Certificate Effective Date	07/09/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	04/13/2026 01:45:11 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	Multipoint/sequential 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	M6, HDV1
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	VFMXGPGNND7A	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	09/21/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	Yes
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VFMXD07.363H
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	Formaldehyde (HCHO) is supplemented by Ford City E10 Test VFMX10093246 for the EPA Confirmatory City E10 Test VFMX91006721. HCHO Standard = 0.006 g/mi HCHO Result = 0.0009 g/mi		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	02/25/2026 10:24:33 AM				
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	1 X 3.7L HA + 2x0.048L BLEED				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	250	Number of Primary Canisters	1				
Number of Bleed Canisters	2	Bleed Canister Total Working Capacity (grams)	2				
Mfr Evaporative/Refueling Family Comments	1 X 3.7L HA 3-port Rect. + 2 X 0.048L Bleed						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VFMXR0250NHJ-001	50 State	0.02	--				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Ford Motor Company	1 - Ford	125 - F250 BED DELETE 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	125 - F250 BED DELETE 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	130 - F250 PICKUP 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	124 - F250 BED DELETE 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	130 - F250 PICKUP 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	115 - F250 PICKUP 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	124 - F250 BED DELETE 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	115 - F250 PICKUP 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ	
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 5W30 / ILSAC GF-7	
Number of Cylinders/Rotors	8	Mechanically Variable Compression Ratio Indicator	N	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
--				
Direct Ozone Reduction (DOR) Device				
Not Equipped				
Mfr Emission Control Device Comments				
--				
Engine Configuration Number 1				
Engine Displacement (liters)	7.3	Engine Rated Horsepower	412	
Number of Inlet Valves Per Cylinder	1	Number of Exhaust Valves Per Cylinder	1	
Air Aspiration Method	Naturally Aspirated	Number of Air Aspiration Devices	--	
Air Aspiration Device Configuration	--	Charge Air Cooler Type	N/A	
Air Aspiration Drive Method(s)	--			
Cylinder Deactivation	No			
Cylinder Deactivation Description	--			
Variable Valve Timing	Yes			
Variable Valve Timing System Description	Oil pressure actuated			
Variable Valve Lift?	No			
Variable Valve Lift System Description	--			
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4	
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--	
Air/Fuel Sensor # 3 Type	Other	Air/Fuel Sensor # 3 Description	WR-HO2S	
Air/Fuel Sensor # 4 Type	Other	Air/Fuel Sensor # 4 Description	WR-HO2S	
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	Not Applicable	Air Injection Type if 'Other'	--	
Mfr Engine Configuration Comments	--			

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Test Group		VFMXD07.363H				Evaporative/Refueling Family			VFMXR0250NHJ		
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		VFMX91006721	VFMX91006722	VFMX10093245	--	VFMX91006723	--	8.2	--	10.1	1

SFTP LEV-III Official Test Numbers				
Test Group Fuel		FTP	US06	SC03
Gasoline		VFMX91006721	VFMX91006722	VFMX10093245

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Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ					
Emission Data Vehicle Information								
Vehicle ID / Configuration	LFE1-6.2-571 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	LFMXD06.26CH	Original Evaporative/Refueling Family	LFMXR0250NHJ					
Original Test Vehicle Model Year	2020							
Vehicle Model								
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F350 4x4					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Ethanol, Gasoline</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Ethanol, Gasoline	
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 - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	LTFER4NE05	Rated Horsepower	383					
Displacement (liters)	6.2							
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)	8742	Equivalent Test Weight (pounds)	9500					
GVWR (lbs)	10000	N/V Ratio	30					
Axle Ratio	4.3							
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	72.06	1.1573	0.11685					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	32.64	1.1379	0.11449					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	56.3							
Emission Control Device Comments	T20-0279-01							

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Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Manufacturer Test Vehicle Comments	F-350 Crew Cab 4x4 SRW		

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	LFMX10061479	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/16/2019	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	43
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3846	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)	1118.02926	--
FE BAG 1 (Bag 1 Fuel Economy)	7.74407	7.74407
CO2 BAG 2 (Bag 2 Carbon Dioxide)	901.32042	--
FE BAG 2 (Bag 2 Fuel Economy)	9.64241	9.64241
CO2 BAG 3 (Bag 3 Carbon Dioxide)	1005.96863	--
FE BAG 3 (Bag 3 Fuel Economy)	8.6386	8.6386
METHANE (CH4 - Methane)	0.01126	--
CO (Carbon Monoxide)	2.16061	--
METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only)	0.0068	--
N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only)	0.0012	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.841614	--
DT-EER (Drive Trace Energy Economy Rating)	-0.422446	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.26611	--
MFR FE (Manufacturer Fuel Economy)	8.90406	8.90406
NOX (Nitrogen Oxide)	0.02157	--
N2O (Nitrous Oxide)	0.00187	--
HC-NM (Non-methane Hydrocarbon)	0.0493769	--
NMOG (Non-methane organic gases)	0.05422	--
HC-TOTAL (Total Hydrocarbon)	0.05908	--

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Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	978.5723	999
Optional Carbon-Related Exhaust Emissions	979.3919	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	974.93732	--

Manufacturer Test Comments NMOG = 1.1 * NMHC_r

Test #	LFMX10061480	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	LFMX10061479	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/13/2019	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	Calculated (1.08 x FID Total Hydrocarbons)		
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	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.3521	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3521	--

Manufacturer Test Comments 3-Day

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	0.3521	0	0.352	0.6	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3521	0	0.352	0.6	Pass

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	LFMX10061483	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	LFMX10061479	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/16/2019	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	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3846	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)	0.2307	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2307	--

Manufacturer Test Comments

Measured NMOG

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	0.2307	0	0.231	0.6	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2307	0	0.231	0.6	Pass

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ									
Test #	LFMX10061481	Test Procedure	24 - Federal fuel refueling test (ORVR)									
Exhaust Test # for this Evap Test	LFMX10061479	Test Fuel Type	59 - Tier 3 E10 Premium Gasoline (10 RVP-FFV ORVR Only)									
Test Date	08/28/2019	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	3909	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>0.037</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.037</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)	0.037	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.037	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0.037	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.037	--										
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	0.037	0.003	0.04	0.2	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.037	0.003	0.04	0.2	Pass				

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	LFMX10061482	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	LFMX10061479	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/13/2019	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	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4001	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	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--

Manufacturer Test Comments

Runloss

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

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Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ						
Test #	LFMX10065858	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	06/08/2020	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	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>0.0069</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.0069	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL (Total Hydrocarbon)	0.0069	--							
Manufacturer Test Comments									
BETP testing is THC only									
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	0.0069	0	0.007	0.03	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0069	0	0.007	0.03	Pass	

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Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
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Emission Data Vehicle Information

Vehicle ID / Configuration	VFH1-7.3-J-299 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VFMXD07.363H	Original Evaporative/Refueling Family	VFMXR0250NHJ
Original Test Vehicle Model Year	2027		
Vehicle Model			
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F-250 Box Delete 4x2

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	VTFHJ0NF00	Rated Horsepower	412
Displacement (liters)	7.3		
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	150,000 (mi)
Curb Weight (lbs)	6539	Equivalent Test Weight (pounds)	9500
GVWR (lbs)	9900	N/V Ratio	30.2
Axle Ratio	4.3		
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	78.43	0.1393	0.0909	50.81	0.1168	0.08882	41.7
US06	78.43	0.1393	0.0909	50.81	0.1168	0.08882	N/A

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Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX10093246	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	02/06/2026	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	190
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3910	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	Yes
Test Results			

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ																																																																																	
	<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>863.979004</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>4.9935</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>10.205951</td><td>10.205951</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0600499</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.160395</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>860.06897</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.3769</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>10.345519</td><td>10.345519</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0388534</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0086891</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>799.650024</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>1.2768</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>11.100448</td><td>11.100448</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0343389</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0292489</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.042003</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>1.57985</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.194842</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.084408</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.375217</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>10.5</td><td>10.5</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.022901</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0088</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.043986</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.045746</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.084656</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)	863.979004	--	CO BAG 1 (Bag 1 Carbon Monoxide)	4.9935	--	FE BAG 1 (Bag 1 Fuel Economy)	10.205951	10.205951	CH4 BAG 1 (Bag 1 Methane)	0.0600499	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.160395	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	860.06897	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.3769	--	FE BAG 2 (Bag 2 Fuel Economy)	10.345519	10.345519	CH4 BAG 2 (Bag 2 Methane)	0.0388534	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0086891	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	799.650024	--	CO BAG 3 (Bag 3 Carbon Monoxide)	1.2768	--	FE BAG 3 (Bag 3 Fuel Economy)	11.100448	11.100448	CH4 BAG 3 (Bag 3 Methane)	0.0343389	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0292489	--	METHANE (CH4 - Methane)	0.042003	--	CO (Carbon Monoxide)	1.57985	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.194842	--	DT-EER (Drive Trace Energy Economy Rating)	0.084408	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.375217	--	MFR FE (Manufacturer Fuel Economy)	10.5	10.5	NOX (Nitrogen Oxide)	0.022901	--	N2O (Nitrous Oxide)	0.0088	--	HC-NM (Non-methane Hydrocarbon)	0.043986	--	NMOG (Non-methane organic gases)	0.045746	--	HC-TOTAL (Total Hydrocarbon)	0.084656	--		
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Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family					VFMXR0250NHJ		
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 2b Bin 170	CO	1.58	--	--	--	--	--	1.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	CO2	847	--	--	--	0	--	847	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG	0.0457	--	1.1	--	--	--	0.046	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG+NOX	0.0686	--	--	--	--	--	0.069	0.170	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NOX	0.0229	--	--	--	--	--	0.023	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	CO	1.58	--	--	--	--	--	1.6	4.2	Pass
CA	150,000 miles	California LEV-III SULEV170	CO2	847	--	--	--	0	--	847	--	--
CA	150,000 miles	California LEV-III SULEV170	NMOG	0.0457	--	1.1	--	--	--	0.046	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG+NOX	0.0686	--	--	--	--	--	0.069	0.170	Pass
CA	150,000 miles	California LEV-III SULEV170	NOX	0.0229	--	--	--	--	--	0.023	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	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX10093248	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	01/13/2026	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	124
Vehicle Class	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	3702	Diesel Adjustment Factor Usage	--
4WD Test Dyno	No		
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

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Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family					VFMXR0250NHJ		
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 SULEV170	CO	1.04	--	--	--	--	--	1	4.2	Pass
CA	4,000 miles	California LEV-III SULEV170	HCHO	0.0008	--	--	--	--	--	0.001	0.016	Pass
CA	4,000 miles	California LEV-III SULEV170	NMOG	0.0653	--	1.1	--	--	--	0.065	999.999	Pass
CA	4,000 miles	California LEV-III SULEV170	NMOG+NOX	0.0741	--	--	--	--	--	0.074	0.340	Pass
CA	4,000 miles	California LEV-III SULEV170	NOX	0.0088	--	--	--	--	--	0.009	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX91006721	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	03/10/2026	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4010	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	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	879.9246216	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	5.0836983	--	
FE BAG 1 (Bag 1 Fuel Economy)	999	--	
CH4 BAG 1 (Bag 1 Methane)	0.0808163	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1784033	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	856.8707886	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.4662784	--	
FE BAG 2 (Bag 2 Fuel Economy)	999	--	
CH4 BAG 2 (Bag 2 Methane)	0.0487146	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.009342	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	806.5119019	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	1.8151855	--	
FE BAG 3 (Bag 3 Fuel Economy)	999	--	
CH4 BAG 3 (Bag 3 Methane)	0.0459205	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.023278	--	
METHANE (CH4 - Methane)	0.0545918	--	
CO (Carbon Monoxide)	1.7923667	--	
METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only)	0.0384466	--	
N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only)	0.0157832	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.5391376	--	
DT-EER (Drive Trace Energy Economy Rating)	0.508296	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.7576517	--	
MFR FE (Manufacturer Fuel Economy)	999	--	
NOX (Nitrogen Oxide)	0.0426375	--	
N2O (Nitrous Oxide)	0.0149358	--	
HC-NM (Non-methane Hydrocarbon)	0.0439673	--	
NMOG (Non-methane organic gases)	0.0482825	--	
PM (Particulate Matter)	0.0004531	--	
HC-TOTAL (Total Hydrocarbon)	0.0973227	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	9999.9999999	851	

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Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family					VFMXR0250NHJ		
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 2b Bin 170	CO	1.79	--	--	--	--	--	1.8	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	CO-COMP	1.9	--	--	--	--	--	2	12	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	CO2	851	--	--	--	0	--	851	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	METHANE-COMB	0.038	--	--	--	--	--	0.04	0.05	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	N2O-COMB	0.016	--	--	--	--	--	0.02	0.05	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG	0.0483	--	1.1	--	--	--	0.048	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG+NOX	0.0909	--	--	--	--	--	0.091	0.170	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG+NOX-COMP	0.2358	--	--	--	--	--	0.236	0.450	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NOX	0.0426	--	--	--	--	--	0.043	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	PM	0.0005	--	--	--	--	--	0	0.008	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	PM-COMP	0.0024	--	--	--	--	--	0.002	0.010	Pass
CA	150,000 miles	California LEV-III SULEV170	CO	1.79	--	--	--	--	--	1.8	4.2	Pass
CA	150,000 miles	California LEV-III SULEV170	CO-COMP	1.9	--	--	--	--	--	2	12	Pass
CA	150,000 miles	California LEV-III SULEV170	CO2	851	--	--	--	0	--	851	--	--
CA	150,000 miles	California LEV-III SULEV170	METHANE-COMB	0.038	--	--	--	--	--	0.04	0.05	Pass
CA	150,000 miles	California LEV-III SULEV170	N2O-COMB	0.016	--	--	--	--	--	0.02	0.05	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG	0.0483	--	1.1	--	--	--	0.048	999.999	Pass

Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family					VFMXR0250NHJ		
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	150,000 miles	California LEV-III SULEV170	NMOG+NOX	0.0909	--	--	--	--	--	0.091	0.170	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG+NOX-COMP	0.2358	--	--	--	--	--	0.236	0.450	Pass
CA	150,000 miles	California LEV-III SULEV170	NOX	0.0426	--	--	--	--	--	0.043	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	PM	0.0005	--	--	--	--	--	0	0.008	Pass
CA	150,000 miles	California LEV-III SULEV170	PM-COMP	0.0024	--	--	--	--	--	0.002	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	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ																																				
Test #	VFMX10093247	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																																				
Test Date	02/06/2026	Fuel	Gasoline																																				
Fuel Batch ID	CERT_5	Fuel Calibration Number	190																																				
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	APTL																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	3910	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	Yes																																				
Test Results																																							
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Manufacturer Test Comments	--																																						

Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family					VFMXR0250NHJ		
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 2b Bin 170	CO2	624	--	--	--	0	--	624	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG	0.0077	--	1.03	--	--	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG+NOX	0.0295	--	--	--	--	--	0.03	0.170	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NOX	0.0218	--	--	--	--	--	0.022	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	CO2	624	--	--	--	0	--	624	--	--
CA	150,000 miles	California LEV-III SULEV170	METHANE	0.0175	--	--	--	--	--	0.018	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	N2O	0.0142	--	--	--	--	--	0.014	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG	0.0077	--	1.03	--	--	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG+NOX	0.0295	--	--	--	--	--	0.03	0.170	Pass
CA	150,000 miles	California LEV-III SULEV170	NOX	0.0218	--	--	--	--	--	0.022	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	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ																																				
Test #	VFMX91006723	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	03/10/2026	Fuel	Gasoline																																				
Fuel Batch ID	43732	Fuel Calibration Number	2																																				
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	--																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	4021	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																																							
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Manufacturer Test Comments	None																																						

Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family					VFMXR0250NHJ		
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 2b Bin 170	CO2	618	--	--	--	0	--	618	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG	0.0058	--	1.03	--	--	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG+NOX	0.0366	--	--	--	--	--	0.037	0.170	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NOX	0.0308	--	--	--	--	--	0.031	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	CO2	618	--	--	--	0	--	618	--	--
CA	150,000 miles	California LEV-III SULEV170	METHANE	0.0187	--	--	--	--	--	0.019	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	N2O	0.0168	--	--	--	--	--	0.017	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG	0.0058	--	1.03	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG+NOX	0.0366	--	--	--	--	--	0.037	0.170	Pass
CA	150,000 miles	California LEV-III SULEV170	NOX	0.0308	--	--	--	--	--	0.031	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	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX91006722	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	03/10/2026	Fuel	Gasoline
Fuel Batch ID	43732	Fuel Calibration Number	2
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4043	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	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ																																																																					
	<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>1455.0531006</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>2.8597822</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0572506</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0681791</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>903.3648071</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>2.1091149</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0267714</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0435353</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0335059</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>2.2749784</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.5885826</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.707534</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-2.8339031</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>999</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.4259177</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0662854</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0475539</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0489805</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0041763</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.080301</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)	1455.0531006	--	CO BAG 1 (Bag 1 Carbon Monoxide)	2.8597822	--	FE BAG 1 (Bag 1 Fuel Economy)	999	--	CH4 BAG 1 (Bag 1 Methane)	0.0572506	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0681791	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	903.3648071	--	CO BAG 2 (Bag 2 Carbon Monoxide)	2.1091149	--	FE BAG 2 (Bag 2 Fuel Economy)	999	--	CH4 BAG 2 (Bag 2 Methane)	0.0267714	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0435353	--	METHANE (CH4 - Methane)	0.0335059	--	CO (Carbon Monoxide)	2.2749784	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.5885826	--	DT-EER (Drive Trace Energy Economy Rating)	-0.707534	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.8339031	--	MFR FE (Manufacturer Fuel Economy)	999	--	NOX (Nitrogen Oxide)	0.4259177	--	N2O (Nitrous Oxide)	0.0662854	--	HC-NM (Non-methane Hydrocarbon)	0.0475539	--	NMOG (Non-methane organic gases)	0.0489805	--	PM (Particulate Matter)	0.0041763	--	HC-TOTAL (Total Hydrocarbon)	0.080301	--
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Manufacturer Test Comments	None Unrounded Result for the following test results were modified by Verify: FE BAG 2, FE BAG 1, MFR FE																																																																							

Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family					VFMXR0250NHJ		
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 2b Bin 170	CO	2.275	--	--	--	--	--	2.275	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG	0.049	--	1.03	--	--	--	0.049	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NOX	0.4259	--	--	--	--	--	0.426	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	PM	0.0042	--	--	--	--	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	CO	2.275	--	--	--	--	--	2.275	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG	0.049	--	1.03	--	--	--	0.049	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NOX	0.4259	--	--	--	--	--	0.426	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	PM	0.0042	--	--	--	--	--	0.004	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ																																				
Test #	VFMX10093245	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	02/10/2026	Fuel	Gasoline																																				
Fuel Batch ID	373-B	Fuel Calibration Number	126																																				
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	APTL																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	3949	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	Yes																																				
Test Results																																							
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Manufacturer Test Comments	--																																						

Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family					VFMXR0250NHJ		
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 2b Bin 170	CO	1.6077	--	--	--	--	--	1.608	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NMOG	0.0513	--	1.03	--	--	--	0.051	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	NOX	0.1406	--	--	--	--	--	0.141	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 170	PM	0.0027	--	--	--	--	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	CO	1.6077	--	--	--	--	--	1.608	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NMOG	0.0513	--	1.03	--	--	--	0.051	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	NOX	0.1406	--	--	--	--	--	0.141	999.999	Pass
CA	150,000 miles	California LEV-III SULEV170	PM	0.0027	--	--	--	--	--	0.003	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
Fuel Properties			
Fuel Batch ID	43732	Fuel Calibration Number	2
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/13/2025
Fuel Batch Calibration Effective Date	06/13/2025	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	0.749
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17885
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.37	Fuel Carbon Mass Fraction (E10)	0.83
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	124
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/17/2025
Fuel Batch Calibration Effective Date	12/17/2025	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	0.752
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.349	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	CERT_5	Fuel Calibration Number	190
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	01/20/2026
Fuel Batch Calibration Effective Date	01/20/2026	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)	18463
Fuel Net Heat of Combustion (E10) (MJ/kg)	42.945	Fuel Carbon Mass Fraction (E10)	0.866
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.866	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	43
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/14/2019
Fuel Batch Calibration Effective Date	08/14/2019	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group		VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
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 (%)	9.6		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17875
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	126
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)		Fuel Batch Calibration Date	01/21/2026
Fuel Batch Calibration Effective Date	01/21/2026		Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.6		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.412		Fuel Carbon Mass Fraction (E10)	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--		Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family			VFMXR0250NHJ		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III SULEV170		
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	METHANE	--	--	--	--	--	--	--	999.999	
150,000 miles	N2O	--	--	--	--	--	--	--	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.170	
150,000 miles	NOX	--	--	--	--	--	--	--	999.999	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III SULEV170		
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	--	--	--	--	--	--	--	0.016	
4,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999	
4,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.340	
4,000 miles	NOX	--	--	--	--	--	--	--	999.999	

Certification Summary Information Report

Test Group	VFMXD07.363H			Evaporative/Refueling Family			VFMXR0250NHJ		
Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			Standard Level			Federal Tier 3 HD Class 2b Bin 170		
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	--	--	--	--	--	--	--	4.2
150,000 miles	CO-COMP	--	--	--	--	--	--	--	12
150,000 miles	CO2	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	--	0.006
150,000 miles	METHANE-COMB	--	--	--	--	--	--	--	0.05
150,000 miles	N2O-COMB	--	--	--	--	--	--	--	0.05
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.170
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.450
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.008
150,000 miles	PM-COMP	--	--	--	--	--	--	--	0.010

Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III SULEV170		
Fuel	Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		VFMXD07.363H			Evaporative/Refueling Family			VFMXR0250NHJ	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			Standard Level			Federal Tier 3 HD Class 2b Bin 170	
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	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.170
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III SULEV170	
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	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group	VFMXD07.363H			Evaporative/Refueling Family			VFMXR0250NHJ		
Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III SULEV170		
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	--	--	--	--	--	--	--	4.2
150,000 miles	CO-COMP	--	--	--	--	--	--	--	12
150,000 miles	CO2	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	--	0.006
150,000 miles	METHANE-COMB	--	--	--	--	--	--	--	0.05
150,000 miles	N2O-COMB	--	--	--	--	--	--	--	0.05
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.170
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.450
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.008
150,000 miles	PM-COMP	--	--	--	--	--	--	--	0.010

Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			Standard Level			Federal Tier 3 HD Class 2b Bin 170		
Fuel	Gasoline			Test Procedure			SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group	VFMXD07.363H			Evaporative/Refueling Family			VFMXR0250NHJ		
Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			Standard Level			Federal Tier 3 HD Class 2b Bin 170		
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	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	999.999

Evaporative/Refueling Standards

Evaporative/Refueling Family	VFMXR0250NHJ		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	

Evaporative/Refueling Family		VFMXR0250NHJ		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Spitback					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	SPITBACK	--	1.0	--		

Evaporative/Refueling Family	VFMXR0250NHJ		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		VFMXR0250NHJ		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	

Certification Summary Information Report

Test Group		VFMXD07.363H		Evaporative/Refueling Family		VFMXR0250NHJ	
Evaporative/Refueling Family		VFMXR0250NHJ		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		VFMXR0250NHJ		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		VFMXR0250NHJ		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		VFMXR0250NHJ		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Spitback					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	SPITBACK	--	1.0	--		
Evaporative/Refueling Family		VFMXR0250NHJ		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		VFMXD07.363H		Evaporative/Refueling Family		VFMXR0250NHJ	
Evaporative/Refueling Family		VFMXR0250NHJ		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		VFMXR0250NHJ		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		
Evaporative/Refueling Family		VFMXR0250NHJ		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		

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Test Group		VFMXD07.363H	Evaporative/Refueling Family	VFMXR0250NHJ
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		VFMXD07.363H	Evaporative/Refueling Family		VFMXR0250NHJ
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		VFMXD07.363H	Evaporative/Refueling Family		VFMXR0250NHJ
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		

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Test Group		VFMXD07.363H	Evaporative/Refueling Family		VFMXR0250NHJ
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	