

MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY

CARB USE ONLY

Invoice Name	MSF250776
Invoice Date	Feb 04, 2026

COMPANY INFORMATION

Company Name	Ford Motor Company
Address	1 American Road
City	Dearborn
State	Michigan
Zip	48126-2798
Country	United States
Contact Name	Tina Oliver
Contact Telephone Number	313-323-8938
Contact Email	toliver@ford.com
CARB Customer Number	CCAM000031

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	CBI_VFMXD07.363H_APPIP	Model Year 2027	VFMXD07.363H	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
2	CBI_VFMXD07.373K_APPIP	Model Year 2027	VFMXD07.373K	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
3	CBI_VFMXD06.761B_APPIP	Model Year 2027	VFMXD06.761B	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
4	CBI_VFMXD06.771D_APPIP	Model Year 2027	VFMXD06.771D	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
5	CBI_FORD_2027_CiHD Application_HD/MD_Exhaust	Model Year 2027	VFMXE07.3BW7	HDO engine family and MDO engine family	Base	\$ 45,911.00
6	CBI_FORD_2027_CiHD Application_HD/MD_Exhaust	Model Year 2027	VFMXE07.3BWU	HDO engine family and MDO engine family	Base	\$ 45,911.00
7	CBI_FORD_2027_CiHD Application_HD/MD_Evaporat & CBI_FORD_2027_CiHD Application_HD/MD_Evaporat	Model Year 2027	VFMXF0210GDJ	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Base	\$ 16,155.00
8	CBI_FORD_2027_CiHD Application_HD/MD_Evaporat	Model Year 2027	VFMXF0250NDJ	Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Base	\$ 16,155.00

	& CBI_FORD_2027_CiHD Application_HD/MD_Evaporat						
9	CBI_FORD_2027_CiHD Application_HD/MD_Evaporat & CBI_FORD_2027_CiHD Application_HD/MD_Evaporat	Model Year 2027	VFMXF0250NCJ		Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Base	\$ 16,155.00
10	CBI_FORD_2027_CiHD Application_HD/MD_Evaporat & CBI_FORD_2027_CiHD Application_HD/MD_Evaporat	Model Year 2027	VFMXF0400NGJ		Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Base	\$ 16,155.00
11	CBI_FORD_2027_CiHD Application_HD/MD_Evaporat	Model Year 2027	VFMXF0210GCV		Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Base	\$ 16,155.00
12	CBI_FORD_2027_CiHD Application_HD/MD_Evaporat	Model Year 2027	VFMXF0360NGV		Heavy-duty vehicle evaporative emissions family and Incomplete MDV evaporative emissions family	Base	\$ 16,155.00
13	CBI_VFMXD03.56BG_APPIP	Model Year 2027	VFMXD03.56BG		Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 25,155.00
14	CBI_VFMXD03.56BZ_APPIP	Model Year 2027	VFMXD03.56BZ		Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
15	CBI_VFMXD03.57BZ_APPIP	Model Year 2027	VFMXD03.57BZ		Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 25,155.00
16	CBI_VFMXD00.00MW_APPIP	Model Year 2027	VFMXD00.00MW		Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
17	CBI_VFMX2VOCV3AA_APP	Model Year 2027	VFMX2VOCV3AA		Heavy-duty greenhouse gas vehicle family	Base	\$ 19,168.00
18	CBI_VFMX2VOCV3AB_APP	Model Year 2027	VFMX2VOCV3AB		Heavy-duty greenhouse gas vehicle family	Base	\$ 19,168.00
19	CBI_VFMX2VOCV4AA_APP	Model Year 2027	VFMX2VOCV4AA		Heavy-duty greenhouse gas vehicle family	Base	\$ 19,168.00
20	CBI_VFMX2VOCV6AA_APP	Model Year 2027	VFMX2VOCV6AA		Heavy-duty greenhouse gas vehicle family	Base	\$ 19,168.00

Total Due	\$ 579,856.00
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I,  , attest that any information provided is true, accurate, and complete.
(Responsible Party Signature Here)



FORD MOTOR COMPANY
APPLICATION FOR CERTIFICATION - PART 1

2027 Model Year

Test Group:	VFMXD07.373K
Durability Group:	VFMXGPGNND7A
Evap. Families:	VFMXR0360NHJ VFMXR0250NHJ
Test Group Description:	V-shaped engine
Durability Group Description:	Four Stroke, Otto Cycle, Gasoline Fueled, Naturally aspirated, Catalyst Code D
Carlines Covered:	F250 PICKUP 2WD F250 PICKUP 4WD F350 PICKUP 2WD F350 PICKUP 4WD
Federal Applicable Standards:	Federal Exhaust - Tier 3 HD Class 3 Bin 230 Federal Evap - Tier 3 FTP CH ₄ -COMB - 0.05 g/mi FTP N ₂ O-COMB - 0.05 g/mi FTP PM - 0.010 g/mi SFTP NMOG+NO _x - 0.350 g/mi
California Applicable Standards:	California Exhaust - LEV-III SULEV230 California Evap - LEV-III FTP PM - 0.010 g/mi

Vehicles Tested

Exhaust Emission Vehicle:		Evaporative Emission Vehicle:	
VFH1-7.3-J-287/Config 0		LFE1-6.2-J-578/Config 0 (VFMXR0360NHJ)	
FTP (E10) TN	VFMX10093250	2Day TN	LFMX10061060
HWY (E10) TN	VFMX10093252	3Day TN	LFMX10061061
SC03 (E10) TN	VFMX10093254	BETP	LFMX10065864
50 NMOG (E10) TN	VFMX10093257	Linking TN	LFMX10061056
LA92 (E10) TN	VFMX10093253	ORVR	LFMX10061057
FTP (E0) TN	VFMX10093255	RL TN	LFMX10061062
HWY (E0) TN	VFMX10093256	LFE1-6.2-571/Config 0 (VFMXR0250NHJ)	
		2Day TN	LFMX10061483
		3Day TN	LFMX10061480
		BETP	LFMX10065858
		Linking TN	LFMX10061479
		ORVR	LFMX10061481
		RL TN	LFMX10061482

Release Date: September 1, 2026

For Questions, Contact:

Snow, Nicholas, nsnow6@ford.com (1-313-3196452)



SECTION 3

Evaporative/Refueling Family Description

03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Family Names:

VFMXR0250NHJ (Complete Pickup and Incomplete Box Delete; 34.5 gallon fuel tank; ORVR; 7.3L)

2027 7.3L F-250 Box Delete and 7.3L F-250 / F-350 Complete Pickup

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Fuel Cap LC34-9030-AC	None	Fuel Tank Vapor	Operates in EVAP	
Fuel Filler Pipe with ORVR Recirculation Orifice (Complete Pickup) PC34-9034-AA (Short Box) PC34-9034-BA (Long Box)	None	Vapor Recirculation	Operates in ORVR	Recirc. Orifice Diameter: 2.0 mm
Vapor Hose with ORVR Recirc. Orifice (part of upfitter Fuel Fill Kit) (Box Delete) LC34-9B149-FA	None	Fuel Tank Vapor Recirculation	Operates in ORVR	Recirc. Orifice Diameter: 2.0 mm
Combo Fuel Limiting Vent Valve & Grade Vent Valve HC34-9B190-AE	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	FLVV Orifice: 10.3 mm GVV Orifice: 2.5 mm
Grade Vent Valve PC34-9B593-CA	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	GVV Orifice: 2.0mm
Fuel Tank Pressure Sensor 9U5A-9C052-CD	Fuel Tank Pressure	None	Operates in FTP	
Carbon Canister LU5A-9D653-MA	None	Fuel Vapor	Operates in EVAP and/or ORVR	250g BWC 3.8L Total Volume (includes 2 x 0.048L Bleed)
Canister Purge Valve EU5A-9G866-BD	Signal from PCM	Vacuum to canister	Operates in FTP	85 SLPM
Vapor Blocking Valve (VBV) GU5A-9G712-CC	None	Fuel Tank Vapor	Operates in FTP	
AIS Hydrocarbon Trap GN15-9T303-AA	None	Fuel Vapor	Operates in EVAP	

03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Family Names:

VFMXR0360NHJ (Complete Pickup and Incomplete Box Delete; 48.9 gallon fuel tank; ORVR; 7.3)

2027 7.3L F-250 Box Delete and 7.3L F-250 / F-350 Complete Pickup

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Fuel Cap LC34-9030-AC	None	Fuel Tank Vapor	Operates in EVAP	
Fuel Filler Pipe with ORVR Recirc. Orifice (Complete Pickup) PC34-9034-BA	None	Vapor Recirculation	Operates in ORVR	Recirc. Orifice Diameter: 2.0 mm
Vapor Hose with ORVR Recirc. Orifice (part of upfitter Fuel Fill Kit) (Box Delete) LC34-9B149-FA	None	Fuel Tank Vapor Recirculation	Operates in ORVR	Recirc. Orifice Diameter: 2.0 mm
Combo Fuel Limiting Vent Valve & Grade Vent Valve HC34-9B190-CC	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	FLVV Orifice: 10.3 mm GVV Orifice: 1.8 mm
Grade Vent Valve PC34-9B593-AA	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	GVV Orifice: 4.0 mm
Fuel Tank Pressure Sensor 9U5A-9C052-CD	Fuel Tank Pressure	None	Operates in FTP	
Carbon Canister #1 (in-series) GU5A-9D653-BD	None	Fuel Vapor	Operates in EVAP and/or ORVR	360g BWC (determined for assembly with all canisters) 1.8L Total Volume (part of 5.7L Total Canister volume)
Carbon Canister #2 (in-series) LU5A-9D653-PA	None	Fuel Vapor	Operates in EVAP and/or ORVR	360g BWC (determined for assembly with all canisters) 3.9L Total Volume (includes 5 x 0.048L Bleed) (part of 5.7L Total Canister volume)
Canister Purge Valve EU5A-9G866-BD	Signal from PCM	Vacuum to canister	Operates in FTP	85 SLPM
Vapor Blocking Valve (VBV) GU5A-9G712-CC	None	Fuel Tank Vapor	Operates in FTP	
AIS Hydrocarbon Trap GN15-9T303-AA	None	Fuel Vapor	Operates in EVAP	



SECTION 7

EPA Certification Summary Information Report (Test Results)

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	04/13/2026 01:53:29 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	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	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	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
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	VFMXD07.373K
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFMXD07.373K	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	130 - F250 PICKUP 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	190 - F350 PICKUP 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	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	130 - F250 PICKUP 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	190 - F350 PICKUP 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	192 - F350 PICKUP 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	115 - F250 PICKUP 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	192 - F350 PICKUP 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes

Certification Summary Information Report

Test Group	VFMXD07.373K	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 5W-30 / 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				
2TWC				
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	--			

Certification Summary Information Report

Test Group		VFMXD07.373K				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		VFMX10093250	VFMX10093253	VFMX10093254	--	VFMX10093252	--	8.0	--	10.8	1.0
SFTP LEV-III Official Test Numbers											
Test Group Fuel		FTP		US06			SC03				
Gasoline		VFMX10093250		VFMX10093253			VFMX10093254				

Certification Summary Information Report

Test Group	VFMXD07.373K	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>Gasoline, Ethanol</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline, Ethanol	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline, Ethanol						
Hybrid Indicator	No							
Multiple Fuel Storage	Fuels Stored Together	Multiple Fuel Combustion	Fuels Combusted Together					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	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							

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
Manufacturer Test Vehicle Comments	F-350 Crew Cab 4x4 SRW		

Certification Summary Information Report

Test Group	VFMXD07.373K	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	--

Certification Summary Information Report

Test Group	VFMXD07.373K	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	0.600	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3521	0	0.352	0.600	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	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	0.600	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2307	0	0.231	0.600	Pass

Test Group	VFMXD07.373K	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><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><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></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																																			
<table><tr><td>Certification Region</td><td>Useful Life</td><td>Standard Level</td><td>Emission Name</td><td>Rounded Result</td><td>Add DF</td><td>Certification Level</td><td>Standard</td><td>Pass/Fail</td></tr><tr><td>Fed</td><td>150,000 miles</td><td>Federal Tier 3 Evap</td><td>HC-TOTAL-EQUIV</td><td>0.037</td><td>0.003</td><td>0.04</td><td>0.20</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>0.037</td><td>0.003</td><td>0.04</td><td>0.20</td><td>Pass</td></tr></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	0.037	0.003	0.04	0.20	Pass	CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.037	0.003	0.04	0.20	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	0.037	0.003	0.04	0.20	Pass																											
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.037	0.003	0.04	0.20	Pass																											

Certification Summary Information Report

Test Group	VFMXD07.373K	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	0.000	0	0.00	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.000	0	0.00	0.05	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	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	0.030	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0069	0	0.007	0.030	Pass	

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
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Emission Data Vehicle Information

Vehicle ID / Configuration	VFH1-7.3-J-287 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VFMXD07.373K	Original Evaporative/Refueling Family	VFMXR0360NHJ
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F-350 4x4
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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	VTFHJ0NC00	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)	7599	Equivalent Test Weight (pounds)	11000
GVWR (lbs)	14000	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			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	85.35	0.4866	0.05942	49.2	0.2953	0.0585	34.4
US06	85.35	0.4866	0.05942	49.2	0.2953	0.0585	N/A

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Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX10093250	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	01/27/2026	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	126
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	3795	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	VFMXD07.373K	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)	883.425928	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	4.0504	--	
FE BAG 1 (Bag 1 Fuel Economy)	9.829817	9.829817	
CH4 BAG 1 (Bag 1 Methane)	0.0639096	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1883689	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	895.983024	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.5963	--	
FE BAG 2 (Bag 2 Fuel Economy)	9.752419	9.752419	
CH4 BAG 2 (Bag 2 Methane)	0.0418509	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0253398	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	823.249487	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	1.1621	--	
FE BAG 3 (Bag 3 Fuel Economy)	10.604829	10.604829	
CH4 BAG 3 (Bag 3 Methane)	0.0316258	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0369886	--	
METHANE (CH4 - Methane)	0.043616	--	
CO (Carbon Monoxide)	1.467824	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.773667	--	
DT-EER (Drive Trace Energy Economy Rating)	0.311002	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.17723	--	
HCHO (Formaldehyde)	0.0006	--	
MFR FE (Manufacturer Fuel Economy)	10	10	
NOX (Nitrogen Oxide)	0.039895	--	
N2O (Nitrous Oxide)	0.0154	--	
HC-NM (Non-methane Hydrocarbon)	0.056871	--	
NMOG (Non-methane organic gases)	0.062448	--	
PM (Particulate Matter)	0.003077	--	
HC-TOTAL (Total Hydrocarbon)	0.098066	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	876	876	
Optional Carbon-Related Exhaust Emissions	881	881	

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Certification Summary Information Report

Test Group		VFMXD07.373K			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 3 Bin 230	CO	1.47	--	--	--	--	--	1.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO-COMP	1.6	--	--	--	--	--	2	4	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO2	876	--	--	--	0.0	--	876	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	HCHO	0.0006	--	--	--	--	--	0.001	0.006	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0624	--	1.1	--	--	--	0.062	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.1023	--	--	--	--	--	0.102	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX-COMP	0.1541	--	--	--	--	--	0.154	0.350	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0399	--	--	--	--	--	0.040	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0031	--	--	--	--	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM-COMP	0.0042	--	--	--	--	--	0.004	0.007	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	1.47	--	--	--	--	--	1.5	4.2	Pass
CA	150,000 miles	California LEV-III SULEV230	CO-COMP	1.6	--	--	--	--	--	2	4	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	876	--	--	--	0.0	--	876	--	--
CA	150,000 miles	California LEV-III SULEV230	HCHO	0.0006	--	--	--	--	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0624	--	1.1	--	--	--	0.062	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.1023	--	--	--	--	--	0.102	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX-COMP	0.1541	--	--	--	--	--	0.154	0.350	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0399	--	--	--	--	--	0.040	999.999	Pass

Certification Summary Information Report

Test Group			VFMXD07.373K			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 SULEV230	PM	0.0031	--	--	--	--	--	0.003	0.010	Pass
CA	150,000 miles	California LEV-III SULEV230	PM-COMP	0.0042	--	--	--	--	--	0.004	0.007	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX10093255	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	02/03/2026	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	190
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	3860	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	VFMXD07.373K	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>901.705994</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>6.6768</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>9.750177</td><td>9.750177</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.066406</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.1965912</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>931.721008</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.9335</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>9.537542</td><td>9.537542</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0368695</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0286607</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>833.452026</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>1.8709</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>10.649346</td><td>10.649346</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0385478</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0425455</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.043452</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>2.38145</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.54137</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>1.26636</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.00794</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>9.9</td><td>9.9</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.063242</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0269</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.064692</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.06728</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.106765</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)	901.705994	--	CO BAG 1 (Bag 1 Carbon Monoxide)	6.6768	--	FE BAG 1 (Bag 1 Fuel Economy)	9.750177	9.750177	CH4 BAG 1 (Bag 1 Methane)	0.066406	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1965912	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	931.721008	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.9335	--	FE BAG 2 (Bag 2 Fuel Economy)	9.537542	9.537542	CH4 BAG 2 (Bag 2 Methane)	0.0368695	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0286607	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	833.452026	--	CO BAG 3 (Bag 3 Carbon Monoxide)	1.8709	--	FE BAG 3 (Bag 3 Fuel Economy)	10.649346	10.649346	CH4 BAG 3 (Bag 3 Methane)	0.0385478	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0425455	--	METHANE (CH4 - Methane)	0.043452	--	CO (Carbon Monoxide)	2.38145	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.54137	--	DT-EER (Drive Trace Energy Economy Rating)	1.26636	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.00794	--	MFR FE (Manufacturer Fuel Economy)	9.9	9.9	NOX (Nitrogen Oxide)	0.063242	--	N2O (Nitrous Oxide)	0.0269	--	HC-NM (Non-methane Hydrocarbon)	0.064692	--	NMOG (Non-methane organic gases)	0.06728	--	HC-TOTAL (Total Hydrocarbon)	0.106765	--	
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																																
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	901.705994	--																																																																																
	CO BAG 1 (Bag 1 Carbon Monoxide)	6.6768	--																																																																																
	FE BAG 1 (Bag 1 Fuel Economy)	9.750177	9.750177																																																																																
	CH4 BAG 1 (Bag 1 Methane)	0.066406	--																																																																																
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1965912	--																																																																																
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	931.721008	--																																																																																
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	CH4 BAG 2 (Bag 2 Methane)	0.0368695	--																																																																																
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0286607	--																																																																																
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	833.452026	--																																																																																
	CO BAG 3 (Bag 3 Carbon Monoxide)	1.8709	--																																																																																
	FE BAG 3 (Bag 3 Fuel Economy)	10.649346	10.649346																																																																																
	CH4 BAG 3 (Bag 3 Methane)	0.0385478	--																																																																																
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0425455	--																																																																																
	METHANE (CH4 - Methane)	0.043452	--																																																																																
	CO (Carbon Monoxide)	2.38145	--																																																																																
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.54137	--																																																																																
	DT-EER (Drive Trace Energy Economy Rating)	1.26636	--																																																																																
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.00794	--																																																																																
	MFR FE (Manufacturer Fuel Economy)	9.9	9.9																																																																																
	NOX (Nitrogen Oxide)	0.063242	--																																																																																
	N2O (Nitrous Oxide)	0.0269	--																																																																																
	HC-NM (Non-methane Hydrocarbon)	0.064692	--																																																																																
	NMOG (Non-methane organic gases)	0.06728	--																																																																																
	HC-TOTAL (Total Hydrocarbon)	0.106765	--																																																																																
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Certification Summary Information Report

Test Group		VFMXD07.373K			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 3 Bin 230	CO	2.38	--	--	--	--	--	2.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO2	902	--	--	--	0.0	--	902	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0673	--	1.1	--	--	--	0.067	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.1305	--	--	--	--	--	0.130	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0632	--	--	--	--	--	0.063	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	2.38	--	--	--	--	--	2.4	4.2	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	902	--	--	--	0.0	--	902	--	--
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0673	--	1.1	--	--	--	0.067	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.1305	--	--	--	--	--	0.130	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0632	--	--	--	--	--	0.063	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX10093257	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	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	3731	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

Test Group	VFMXD07.373K	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>942.633278</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>7.0187</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>9.150308</td><td>9.150308</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0789744</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.5878256</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>903.941795</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.1105</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>9.673086</td><td>9.673086</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0079754</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0066934</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>805.018141</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.4622</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>10.854769</td><td>10.854769</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0087018</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0105655</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.022887</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>1.638548</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.843308</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.13989</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.03365</td><td>--</td></tr><tr><td>HCHO (Formaldehyde)</td><td>0.0008</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>9.8</td><td>9.8</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.012832</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.116287</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.127989</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.137862</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)	942.633278	--	CO BAG 1 (Bag 1 Carbon Monoxide)	7.0187	--	FE BAG 1 (Bag 1 Fuel Economy)	9.150308	9.150308	CH4 BAG 1 (Bag 1 Methane)	0.0789744	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.5878256	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	903.941795	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.1105	--	FE BAG 2 (Bag 2 Fuel Economy)	9.673086	9.673086	CH4 BAG 2 (Bag 2 Methane)	0.0079754	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0066934	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	805.018141	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.4622	--	FE BAG 3 (Bag 3 Fuel Economy)	10.854769	10.854769	CH4 BAG 3 (Bag 3 Methane)	0.0087018	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0105655	--	METHANE (CH4 - Methane)	0.022887	--	CO (Carbon Monoxide)	1.638548	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.843308	--	DT-EER (Drive Trace Energy Economy Rating)	0.13989	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.03365	--	HCHO (Formaldehyde)	0.0008	--	MFR FE (Manufacturer Fuel Economy)	9.8	9.8	NOX (Nitrogen Oxide)	0.012832	--	HC-NM (Non-methane Hydrocarbon)	0.116287	--	NMOG (Non-methane organic gases)	0.127989	--	HC-TOTAL (Total Hydrocarbon)	0.137862	--	
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Certification Summary Information Report

Test Group		VFMXD07.373K			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 SULEV230	CO	1.64	--	--	--	--	--	1.6	4.2	Pass
CA	4,000 miles	California LEV-III SULEV230	HCHO	0.0008	--	--	--	--	--	0.001	0.020	Pass
CA	4,000 miles	California LEV-III SULEV230	NMOG	0.1280	--	1.1	--	--	--	0.128	999.999	Pass
CA	4,000 miles	California LEV-III SULEV230	NMOG+NOX	0.1408	--	--	--	--	--	0.141	0.460	Pass
CA	4,000 miles	California LEV-III SULEV230	NOX	0.0128	--	--	--	--	--	0.013	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ																																							
Test #	VFMX10093252	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	01/27/2026	Fuel	Gasoline																																							
Fuel Batch ID	373-B	Fuel Calibration Number	126																																							
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	3795	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																																							
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Certification Summary Information Report

Test Group		VFMXD07.373K				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 3 Bin 230	CO2	575	--	--	--	0.0	--	575	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0064	--	1.03	--	--	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.0086	--	--	--	--	--	0.009	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0022	--	--	--	--	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	575	--	--	--	0.0	--	575	--	--
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0064	--	1.03	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.0086	--	--	--	--	--	0.009	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0022	--	--	--	--	--	0.002	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ																																				
Test #	VFMX10093256	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																																				
Test Date	02/03/2026	Fuel	Gasoline																																				
Fuel Batch ID	CERT_5	Fuel Calibration Number	190																																				
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	3860	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																																				
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NMOG (Non-methane organic gases)	0.01229	--																																					
HC-TOTAL (Total Hydrocarbon)	0.027143	--																																					
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>588</td> <td>588</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	588	588																														
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																					
Carbon-Related Exhaust Emissions	588	588																																					
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>586.9</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	586.9	--																														
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																					
Carbon dioxide	586.9	--																																					
Manufacturer Test Comments	--																																						

Certification Summary Information Report

Test Group		VFMXD07.373K				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 3 Bin 230	CO2	588	--	--	--	0.0	--	588	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0123	--	1.03	--	--	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.0500	--	--	--	--	--	0.050	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0377	--	--	--	--	--	0.038	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	588	--	--	--	0.0	--	588	--	--
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0123	--	1.03	--	--	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.0500	--	--	--	--	--	0.050	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0377	--	--	--	--	--	0.038	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX10093253	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	01/29/2026	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	126
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	3833	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			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO BAG 1 (Bag 1 Carbon Monoxide)	1.4181	--	
CH4 BAG 1 (Bag 1 Methane)	0.0266757	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0236927	--	
METHANE (CH4 - Methane)	0.026676	--	
CO (Carbon Monoxide)	1.41808	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.352389	--	
DT-EER (Drive Trace Energy Economy Rating)	0.321376	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.064676	--	
MFR FE (Manufacturer Fuel Economy)	8.9	8.9	
NOX (Nitrogen Oxide)	0.148139	--	
HC-NM (Non-methane Hydrocarbon)	0.023003	--	
NMOG (Non-methane organic gases)	0.025259	--	
PM (Particulate Matter)	0.006907	--	
HC-TOTAL (Total Hydrocarbon)	0.048844	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	983	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	980.9	--	

Certification Summary Information Report

Test Group		VFMXD07.373K				Evaporative/Refueling Family				VFMXR0250NHJ		
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 230	CO	1.4181	--	--	--	--	--	1.418	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0253	--	1.03	--	--	--	0.025	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.1734	--	--	--	--	--	0.173	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.1481	--	--	--	--	--	0.148	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0069	--	--	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	1.4181	--	--	--	--	--	1.418	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0253	--	1.03	--	--	--	0.025	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.1481	--	--	--	--	--	0.148	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	PM	0.0069	--	--	--	--	--	0.007	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
Test #	VFMX10093254	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	01/27/2026	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	126
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	3826	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			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.047188	--	
CO (Carbon Monoxide)	1.85106	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.283914	--	
DT-EER (Drive Trace Energy Economy Rating)	0.19195	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.395049	--	
MFR FE (Manufacturer Fuel Economy)	8.8	8.8	
NOX (Nitrogen Oxide)	0.113751	--	
HC-NM (Non-methane Hydrocarbon)	0.068108	--	
NMOG (Non-methane organic gases)	0.074788	--	
PM (Particulate Matter)	0.00316	--	
HC-TOTAL (Total Hydrocarbon)	0.118598	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	989	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	986	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VFMXD07.373K			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 3 Bin 230	CO	1.8511	--	--	--	--	--	1.851	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0748	--	1.03	--	--	--	0.075	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.1138	--	--	--	--	--	0.114	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0032	--	--	--	--	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	1.8511	--	--	--	--	--	1.851	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0748	--	1.03	--	--	--	0.075	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.1138	--	--	--	--	--	0.114	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	PM	0.0032	--	--	--	--	--	0.003	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0250NHJ
Fuel Properties			
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	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	--
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
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	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

Certification Summary Information Report

Test Group	VFMXD07.373K	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	0.752
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	--

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family					VFMXR0250NHJ		
Consolidated List of Standards									
Exhaust Standards									
Cert Region	Federal	Cert/In-Use Code					Cert		
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	Standard Level					Federal Tier 3 HD Class 3 Bin 230		
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	--	--	--	--	--	--	--	4
150,000 miles	CO2	--	--	--	--	--	--	0.0	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	--	0.230
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.350
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.010
150,000 miles	PM-COMP	--	--	--	--	--	--	--	0.007
Cert Region	California + CAA Section 177 states	Cert/In-Use Code					Cert		
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	Standard Level					California LEV-III SULEV230		
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	VFMXD07.373K			Evaporative/Refueling Family			VFMXR0250NHJ		
Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)			Standard Level			Federal Tier 3 HD Class 3 Bin 230		
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	--	--	--	--	--	--	0.0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.230
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)			Standard Level			California LEV-III SULEV230		
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	--	--	--	--	--	--	--	4
150,000 miles	CO2	--	--	--	--	--	--	0.0	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	--	0.230
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.350
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.010
150,000 miles	PM-COMP	--	--	--	--	--	--	--	0.007

Certification Summary Information Report

Test Group	VFMXD07.373K				Evaporative/Refueling Family			VFMXR0250NHJ	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)				Standard Level			California LEV-III SULEV230	
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	--	0.460
4,000 miles	NOX	--	--	--	--	--	--	--	999.999

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)				Standard Level			California LEV-III SULEV230	
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	--	--	--	--	--	--	0.0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.230
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Cert Region	Federal				Cert/In-Use Code			Cert	
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)				Standard Level			Federal Tier 3 HD Class 3 Bin 230	
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	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		VFMXD07.373K			Evaporative/Refueling Family			VFMXR0250NHJ	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		HDV2 (Federal HD chassis Class 3 GVW 10001-14000)			Standard Level			Federal Tier 3 HD Class 3 Bin 230	
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

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)			Standard Level			California LEV-III SULEV230	
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	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 Running Loss				
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF
Gasoline	150,000 miles	OMHCE	--	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 Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result		Std	Add DF	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--		0.05	0	

Certification Summary Information Report

Test Group		VFMXD07.373K		Evaporative/Refueling Family		VFMXR0250NHJ	
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		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		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		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		VFMXD07.373K		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		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		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		VFMXD07.373K	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		VFMXD07.373K	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	

Certification Summary Information Report

Test Group		VFMXD07.373K	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		

Certification Summary Information Report

Test Group		VFMXD07.373K	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	

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	04/13/2026 01:53:29 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	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	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	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
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	VFMXD07.373K
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	02/25/2026 10:28:41 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	1x3.7L HA + 1x1.8L HA +5x0.48L				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	360	Number of Primary Canisters	2				
Number of Bleed Canisters	5	Bleed Canister Total Working Capacity (grams)	2				
Mfr Evaporative/Refueling Family Comments	1 X 1.8L HA 3-port Rect. + 1 X 3.7L 3-port Rect. + 5 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				
VFMXR0360NHJ-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	130 - F250 PICKUP 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	190 - F350 PICKUP 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
Ford Motor Company	1 - Ford	190 - F350 PICKUP 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	192 - F350 PICKUP 4WD	Federal	Part-time 4-Wheel Drive	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	192 - F350 PICKUP 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ	
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	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				
2TWC				
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	--			

Certification Summary Information Report

Test Group		VFMXD07.373K				Evaporative/Refueling Family			VFMXR0360NHJ		
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		VFMX10093250	VFMX10093253	VFMX10093254	--	VFMX10093252	--	8.0	--	10.8	1.0

SFTP LEV-III Official Test Numbers							
Test Group Fuel		FTP		US06		SC03	
Gasoline		VFMX10093250		VFMX10093253		VFMX10093254	

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
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Emission Data Vehicle Information

Vehicle ID / Configuration	LFE1-6.2-J-578 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	LFMXD06.26BC	Original Evaporative/Refueling Family	LFMXF0360NHJ
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	--
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Drive Sources and Fuel System Details

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	LTFETRNG05	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)	9000	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	Creeper 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	72.06	1.1573	0.11685	31.71	0.58462	0.1229	56.3

Emission Control Device Comments

T20-0255-01 60 ft^2

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Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Manufacturer Test Vehicle Comments	F-350 Crew Cab 4x4 SRW		

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test #	LFMX10061056	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	07/23/2019	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	42
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4735	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)	992.8242	--
FE BAG 1 (Bag 1 Fuel Economy)	8.63003	8.63003
CO2 BAG 2 (Bag 2 Carbon Dioxide)	820.72929	--
FE BAG 2 (Bag 2 Fuel Economy)	10.43635	10.43635
CO2 BAG 3 (Bag 3 Carbon Dioxide)	877.19137	--
FE BAG 3 (Bag 3 Fuel Economy)	9.79248	9.79248
METHANE (CH4 - Methane)	0.00946	--
CO (Carbon Monoxide)	1.83797	--
METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only)	0.0058	--
N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only)	0.0002	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.570671	--
DT-EER (Drive Trace Energy Economy Rating)	0.167232	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.23925	--
MFR FE (Manufacturer Fuel Economy)	9.83251	9.83251
NOX (Nitrogen Oxide)	0.0716	--
N2O (Nitrous Oxide)	0.00011	--
HC-NM (Non-methane Hydrocarbon)	0.0311015	--
NMOG (Non-methane organic gases)	0.03107	--
HC-TOTAL (Total Hydrocarbon)	0.03991	--

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	875.0118	999
Optional Carbon-Related Exhaust Emissions	875.2522	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	871.89962	--

Manufacturer Test Comments 2-day and linking 75 NMOG = 1.04 * NMHCr

Test #	LFMX10061060	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	LFMX10061056	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	07/23/2019	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	4735	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)	0.3557	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3557	--

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	0.3557	0	0.356	0.600	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3557	0	0.356	0.600	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ									
Test #	LFMX10061061	Test Procedure	34 - Federal fuel 3-day evap									
Exhaust Test # for this Evap Test	LFMX10061056	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	07/18/2019	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	4700	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												
<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>0.3774</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.3774</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)	0.3774	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3774	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0.3774	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3774	--										
Manufacturer Test Comments												
3-Day 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	0.3774	0	0.377	0.600	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.3774	0	0.377	0.600	Pass				

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ									
Test #	LFMX10061057	Test Procedure	24 - Federal fuel refueling test (ORVR)									
Exhaust Test # for this Evap Test	LFMX10061056	Test Fuel Type	59 - Tier 3 E10 Premium Gasoline (10 RVP-FFV ORVR Only)									
Test Date	07/30/2019	Fuel	Gasoline									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	APTL											
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)											
Test Start Odometer Reading	4754	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												
<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>0.012</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.012</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)	0.012	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.012	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0.012	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.012	--										
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	0.012	0	0.01	0.20	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.012	0	0.01	0.20	Pass				

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test #	LFMX10061062	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	LFMX10061056	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	07/17/2019	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	4711	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--

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	0.000	0	0.00	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.000	0	0.00	0.05	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ						
Test #	LFMX10065864	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	06/16/2020	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> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value (miles per gallon)</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0101</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.0101	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL (Total Hydrocarbon)	0.0101	--							
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	0.0101	0	0.010	0.030	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0101	0	0.010	0.030	Pass	

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
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Emission Data Vehicle Information

Vehicle ID / Configuration	VFH1-7.3-J-287 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VFMXD07.373K	Original Evaporative/Refueling Family	VFMXR0360NHJ
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F-350 4x4
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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	VTFHJ0NC00	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)	7599	Equivalent Test Weight (pounds)	11000
GVWR (lbs)	14000	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			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	85.35	0.4866	0.05942	49.2	0.2953	0.0585	34.4
US06	85.35	0.4866	0.05942	49.2	0.2953	0.0585	N/A

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Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test #	VFMX10093250	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	01/27/2026	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	126
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	3795	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	883.425928	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	4.0504	--	
FE BAG 1 (Bag 1 Fuel Economy)	9.829817	9.829817	
CH4 BAG 1 (Bag 1 Methane)	0.0639096	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1883689	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	895.983024	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.5963	--	
FE BAG 2 (Bag 2 Fuel Economy)	9.752419	9.752419	
CH4 BAG 2 (Bag 2 Methane)	0.0418509	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0253398	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	823.249487	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	1.1621	--	
FE BAG 3 (Bag 3 Fuel Economy)	10.604829	10.604829	
CH4 BAG 3 (Bag 3 Methane)	0.0316258	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0369886	--	
METHANE (CH4 - Methane)	0.043616	--	
CO (Carbon Monoxide)	1.467824	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.773667	--	
DT-EER (Drive Trace Energy Economy Rating)	0.311002	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.17723	--	
HCHO (Formaldehyde)	0.0006	--	
MFR FE (Manufacturer Fuel Economy)	10	10	
NOX (Nitrogen Oxide)	0.039895	--	
N2O (Nitrous Oxide)	0.0154	--	
HC-NM (Non-methane Hydrocarbon)	0.056871	--	
NMOG (Non-methane organic gases)	0.062448	--	
PM (Particulate Matter)	0.003077	--	
HC-TOTAL (Total Hydrocarbon)	0.098066	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	876	876	
Optional Carbon-Related Exhaust Emissions	881	881	

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Certification Summary Information Report

Test Group		VFMXD07.373K			Evaporative/Refueling Family					VFMXR0360NHJ		
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 230	CO	1.47	--	--	--	--	--	1.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO-COMP	1.6	--	--	--	--	--	2	4	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO2	876	--	--	--	0.0	--	876	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	HCHO	0.0006	--	--	--	--	--	0.001	0.006	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0624	--	1.1	--	--	--	0.062	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.1023	--	--	--	--	--	0.102	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX-COMP	0.1541	--	--	--	--	--	0.154	0.350	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0399	--	--	--	--	--	0.040	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0031	--	--	--	--	--	0.003	0.010	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM-COMP	0.0042	--	--	--	--	--	0.004	0.007	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	1.47	--	--	--	--	--	1.5	4.2	Pass
CA	150,000 miles	California LEV-III SULEV230	CO-COMP	1.6	--	--	--	--	--	2	4	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	876	--	--	--	0.0	--	876	--	--
CA	150,000 miles	California LEV-III SULEV230	HCHO	0.0006	--	--	--	--	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0624	--	1.1	--	--	--	0.062	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.1023	--	--	--	--	--	0.102	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX-COMP	0.1541	--	--	--	--	--	0.154	0.350	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0399	--	--	--	--	--	0.040	999.999	Pass

Certification Summary Information Report

Test Group		VFMXD07.373K			Evaporative/Refueling Family					VFMXR0360NHJ		
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 SULEV230	PM	0.0031	--	--	--	--	--	0.003	0.010	Pass
CA	150,000 miles	California LEV-III SULEV230	PM-COMP	0.0042	--	--	--	--	--	0.004	0.007	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test #	VFMX10093255	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	02/03/2026	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	190
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	3860	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ																																																																																									
	<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>901.705994</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>6.6768</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>9.750177</td><td>9.750177</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.066406</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.1965912</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>931.721008</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.9335</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>9.537542</td><td>9.537542</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0368695</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0286607</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>833.452026</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>1.8709</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>10.649346</td><td>10.649346</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0385478</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0425455</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.043452</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>2.38145</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>1.54137</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>1.26636</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>2.00794</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>9.9</td><td>9.9</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.063242</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0269</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.064692</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.06728</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.106765</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)	901.705994	--	CO BAG 1 (Bag 1 Carbon Monoxide)	6.6768	--	FE BAG 1 (Bag 1 Fuel Economy)	9.750177	9.750177	CH4 BAG 1 (Bag 1 Methane)	0.066406	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1965912	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	931.721008	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.9335	--	FE BAG 2 (Bag 2 Fuel Economy)	9.537542	9.537542	CH4 BAG 2 (Bag 2 Methane)	0.0368695	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0286607	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	833.452026	--	CO BAG 3 (Bag 3 Carbon Monoxide)	1.8709	--	FE BAG 3 (Bag 3 Fuel Economy)	10.649346	10.649346	CH4 BAG 3 (Bag 3 Methane)	0.0385478	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0425455	--	METHANE (CH4 - Methane)	0.043452	--	CO (Carbon Monoxide)	2.38145	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.54137	--	DT-EER (Drive Trace Energy Economy Rating)	1.26636	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.00794	--	MFR FE (Manufacturer Fuel Economy)	9.9	9.9	NOX (Nitrogen Oxide)	0.063242	--	N2O (Nitrous Oxide)	0.0269	--	HC-NM (Non-methane Hydrocarbon)	0.064692	--	NMOG (Non-methane organic gases)	0.06728	--	HC-TOTAL (Total Hydrocarbon)	0.106765	--	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>902</td><td>902</td></tr><tr><td>Optional Carbon-Related Exhaust Emissions</td><td>911</td><td>911</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	902	902	Optional Carbon-Related Exhaust Emissions	911	911
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																																									
	CO2 BAG 1 (Bag 1 Carbon Dioxide)	901.705994	--																																																																																									
	CO BAG 1 (Bag 1 Carbon Monoxide)	6.6768	--																																																																																									
	FE BAG 1 (Bag 1 Fuel Economy)	9.750177	9.750177																																																																																									
	CH4 BAG 1 (Bag 1 Methane)	0.066406	--																																																																																									
	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.1965912	--																																																																																									
	CO2 BAG 2 (Bag 2 Carbon Dioxide)	931.721008	--																																																																																									
	CO BAG 2 (Bag 2 Carbon Monoxide)	0.9335	--																																																																																									
	FE BAG 2 (Bag 2 Fuel Economy)	9.537542	9.537542																																																																																									
	CH4 BAG 2 (Bag 2 Methane)	0.0368695	--																																																																																									
	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0286607	--																																																																																									
	CO2 BAG 3 (Bag 3 Carbon Dioxide)	833.452026	--																																																																																									
	CO BAG 3 (Bag 3 Carbon Monoxide)	1.8709	--																																																																																									
	FE BAG 3 (Bag 3 Fuel Economy)	10.649346	10.649346																																																																																									
	CH4 BAG 3 (Bag 3 Methane)	0.0385478	--																																																																																									
	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0425455	--																																																																																									
	METHANE (CH4 - Methane)	0.043452	--																																																																																									
	CO (Carbon Monoxide)	2.38145	--																																																																																									
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.54137	--																																																																																									
	DT-EER (Drive Trace Energy Economy Rating)	1.26636	--																																																																																									
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.00794	--																																																																																									
	MFR FE (Manufacturer Fuel Economy)	9.9	9.9																																																																																									
	NOX (Nitrogen Oxide)	0.063242	--																																																																																									
	N2O (Nitrous Oxide)	0.0269	--																																																																																									
	HC-NM (Non-methane Hydrocarbon)	0.064692	--																																																																																									
	NMOG (Non-methane organic gases)	0.06728	--																																																																																									
	HC-TOTAL (Total Hydrocarbon)	0.106765	--																																																																																									
	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																																																									
	Carbon-Related Exhaust Emissions	902	902																																																																																									
	Optional Carbon-Related Exhaust Emissions	911	911																																																																																									
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>898.5</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	898.5	--																																																																																				
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Certification Summary Information Report

Test Group		VFMXD07.373K			Evaporative/Refueling Family					VFMXR0360NHJ		
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 230	CO	2.38	--	--	--	--	--	2.4	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	CO2	902	--	--	--	0.0	--	902	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0673	--	1.1	--	--	--	0.067	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.1305	--	--	--	--	--	0.130	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0632	--	--	--	--	--	0.063	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	2.38	--	--	--	--	--	2.4	4.2	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	902	--	--	--	0.0	--	902	--	--
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0673	--	1.1	--	--	--	0.067	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.1305	--	--	--	--	--	0.130	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0632	--	--	--	--	--	0.063	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test #	VFMX10093257	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	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	3731	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

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ																																																																																
	<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>942.633278</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>7.0187</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>9.150308</td><td>9.150308</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0789744</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.5878256</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>903.941795</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.1105</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>9.673086</td><td>9.673086</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0079754</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0066934</td><td>--</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>805.018141</td><td>--</td></tr><tr><td>CO BAG 3 (Bag 3 Carbon Monoxide)</td><td>0.4622</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>10.854769</td><td>10.854769</td></tr><tr><td>CH4 BAG 3 (Bag 3 Methane)</td><td>0.0087018</td><td>--</td></tr><tr><td>NMOG BAG 3 (Bag 3 Non-methane organic gases)</td><td>0.0105655</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.022887</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>1.638548</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.843308</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.13989</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.03365</td><td>--</td></tr><tr><td>HCHO (Formaldehyde)</td><td>0.0008</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>9.8</td><td>9.8</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.012832</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.116287</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.127989</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.137862</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)	942.633278	--	CO BAG 1 (Bag 1 Carbon Monoxide)	7.0187	--	FE BAG 1 (Bag 1 Fuel Economy)	9.150308	9.150308	CH4 BAG 1 (Bag 1 Methane)	0.0789744	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.5878256	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	903.941795	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.1105	--	FE BAG 2 (Bag 2 Fuel Economy)	9.673086	9.673086	CH4 BAG 2 (Bag 2 Methane)	0.0079754	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0066934	--	CO2 BAG 3 (Bag 3 Carbon Dioxide)	805.018141	--	CO BAG 3 (Bag 3 Carbon Monoxide)	0.4622	--	FE BAG 3 (Bag 3 Fuel Economy)	10.854769	10.854769	CH4 BAG 3 (Bag 3 Methane)	0.0087018	--	NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0105655	--	METHANE (CH4 - Methane)	0.022887	--	CO (Carbon Monoxide)	1.638548	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.843308	--	DT-EER (Drive Trace Energy Economy Rating)	0.13989	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.03365	--	HCHO (Formaldehyde)	0.0008	--	MFR FE (Manufacturer Fuel Economy)	9.8	9.8	NOX (Nitrogen Oxide)	0.012832	--	HC-NM (Non-methane Hydrocarbon)	0.116287	--	NMOG (Non-methane organic gases)	0.127989	--	HC-TOTAL (Total Hydrocarbon)	0.137862	--	
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Certification Summary Information Report

Test Group		VFMXD07.373K				Evaporative/Refueling Family				VFMXR0360NHJ		
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 SULEV230	CO	1.64	--	--	--	--	--	1.6	4.2	Pass
CA	4,000 miles	California LEV-III SULEV230	HCHO	0.0008	--	--	--	--	--	0.001	0.020	Pass
CA	4,000 miles	California LEV-III SULEV230	NMOG	0.1280	--	1.1	--	--	--	0.128	999.999	Pass
CA	4,000 miles	California LEV-III SULEV230	NMOG+NOX	0.1408	--	--	--	--	--	0.141	0.460	Pass
CA	4,000 miles	California LEV-III SULEV230	NOX	0.0128	--	--	--	--	--	0.013	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test #	VFMX10093252	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	01/27/2026	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	126
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	3795	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			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.011322	--	
CO (Carbon Monoxide)	0.332209	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-5.61061	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.442414	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.16581	--	
HCHO (Formaldehyde)	0	--	
MFR FE (Manufacturer Fuel Economy)	15.2	15.2	
NOX (Nitrogen Oxide)	0.002203	--	
N2O (Nitrous Oxide)	0.0004	--	
HC-NM (Non-methane Hydrocarbon)	0.005791	--	
NMOG (Non-methane organic gases)	0.006359	--	
HC-TOTAL (Total Hydrocarbon)	0.016485	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	575	575	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	573.8	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VFMXD07.373K			Evaporative/Refueling Family					VFMXR0360NHJ		
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 230	CO2	575	--	--	--	0.0	--	575	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0064	--	1.03	--	--	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.0086	--	--	--	--	--	0.009	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0022	--	--	--	--	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	575	--	--	--	0.0	--	575	--	--
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0064	--	1.03	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.0086	--	--	--	--	--	0.009	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0022	--	--	--	--	--	0.002	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ																																				
Test #	VFMX10093256	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline																																				
Test Date	02/03/2026	Fuel	Gasoline																																				
Fuel Batch ID	CERT_5	Fuel Calibration Number	190																																				
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	3860	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		VFMXD07.373K				Evaporative/Refueling Family				VFMXR0360NHJ		
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 230	CO2	588	--	--	--	0.0	--	588	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0123	--	1.03	--	--	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.0500	--	--	--	--	--	0.050	0.230	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.0377	--	--	--	--	--	0.038	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO2	588	--	--	--	0.0	--	588	--	--
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0123	--	1.03	--	--	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG+NOX	0.0500	--	--	--	--	--	0.050	0.230	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.0377	--	--	--	--	--	0.038	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	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test #	VFMX10093253	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	01/29/2026	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	126
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	3833	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			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO BAG 1 (Bag 1 Carbon Monoxide)	1.4181	--	
CH4 BAG 1 (Bag 1 Methane)	0.0266757	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0236927	--	
METHANE (CH4 - Methane)	0.026676	--	
CO (Carbon Monoxide)	1.41808	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.352389	--	
DT-EER (Drive Trace Energy Economy Rating)	0.321376	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.064676	--	
MFR FE (Manufacturer Fuel Economy)	8.9	8.9	
NOX (Nitrogen Oxide)	0.148139	--	
HC-NM (Non-methane Hydrocarbon)	0.023003	--	
NMOG (Non-methane organic gases)	0.025259	--	
PM (Particulate Matter)	0.006907	--	
HC-TOTAL (Total Hydrocarbon)	0.048844	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	983	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	980.9	--	

Certification Summary Information Report

Test Group		VFMXD07.373K				Evaporative/Refueling Family				VFMXR0360NHJ		
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 230	CO	1.4181	--	--	--	--	--	1.418	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0253	--	1.03	--	--	--	0.025	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG+NOX	0.1734	--	--	--	--	--	0.173	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.1481	--	--	--	--	--	0.148	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0069	--	--	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	1.4181	--	--	--	--	--	1.418	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0253	--	1.03	--	--	--	0.025	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.1481	--	--	--	--	--	0.148	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	PM	0.0069	--	--	--	--	--	0.007	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Test #	VFMX10093254	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	01/27/2026	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	126
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	3826	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			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.047188	--	
CO (Carbon Monoxide)	1.85106	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.283914	--	
DT-EER (Drive Trace Energy Economy Rating)	0.19195	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.395049	--	
MFR FE (Manufacturer Fuel Economy)	8.8	8.8	
NOX (Nitrogen Oxide)	0.113751	--	
HC-NM (Non-methane Hydrocarbon)	0.068108	--	
NMOG (Non-methane organic gases)	0.074788	--	
PM (Particulate Matter)	0.00316	--	
HC-TOTAL (Total Hydrocarbon)	0.118598	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	989	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	986	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VFMXD07.373K				Evaporative/Refueling Family				VFMXR0360NHJ		
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 230	CO	1.8511	--	--	--	--	--	1.851	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NMOG	0.0748	--	1.03	--	--	--	0.075	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	NOX	0.1138	--	--	--	--	--	0.114	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 3 Bin 230	PM	0.0032	--	--	--	--	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	CO	1.8511	--	--	--	--	--	1.851	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NMOG	0.0748	--	1.03	--	--	--	0.075	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	NOX	0.1138	--	--	--	--	--	0.114	999.999	Pass
CA	150,000 miles	California LEV-III SULEV230	PM	0.0032	--	--	--	--	--	0.003	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
Fuel Properties			
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	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	--
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	373-B	Fuel Calibration Number	42
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/10/2019
Fuel Batch Calibration Effective Date	07/10/2019	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
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)	17981
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--

Certification Summary Information Report

Test Group	VFMXD07.373K	Evaporative/Refueling Family					VFMXR0360NHJ		
Consolidated List of Standards									
Exhaust Standards									
Cert Region	Federal	Cert/In-Use Code					Cert		
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	Standard Level					Federal Tier 3 HD Class 3 Bin 230		
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	--	--	--	--	--	--	--	4
150,000 miles	CO2	--	--	--	--	--	--	0.0	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	--	0.230
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.350
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.010
150,000 miles	PM-COMP	--	--	--	--	--	--	--	0.007
Cert Region	California + CAA Section 177 states	Cert/In-Use Code					Cert		
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)	Standard Level					California LEV-III SULEV230		
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	VFMXD07.373K			Evaporative/Refueling Family			VFMXR0360NHJ		
Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)			Standard Level			Federal Tier 3 HD Class 3 Bin 230		
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	--	--	--	--	--	--	0.0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.230
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)			Standard Level			California LEV-III SULEV230		
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	--	--	--	--	--	--	--	4
150,000 miles	CO2	--	--	--	--	--	--	0.0	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	--	0.230
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.350
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.010
150,000 miles	PM-COMP	--	--	--	--	--	--	--	0.007

Certification Summary Information Report

Test Group		VFMXD07.373K			Evaporative/Refueling Family			VFMXR0360NHJ	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)			Standard Level			California LEV-III SULEV230	
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	--	0.460
4,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)			Standard Level			California LEV-III SULEV230	
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	--	--	--	--	--	--	0.0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.230
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		HDV2 (Federal HD chassis Class 3 GVW 10001-14000)			Standard Level			Federal Tier 3 HD Class 3 Bin 230	
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	CO	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group	VFMXD07.373K			Evaporative/Refueling Family			VFMXR0360NHJ		
Cert Region	Federal			Cert/In-Use Code			Cert		
Vehicle Class	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)			Standard Level			Federal Tier 3 HD Class 3 Bin 230		
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

Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	MDV7 (Cal. LEV 2/3/4 MDV GVW 10001-14000)			Standard Level			California LEV-III SULEV230		
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	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		VFMXR0360NHJ		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	

Evaporative/Refueling Family		VFMXR0360NHJ	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	

Certification Summary Information Report

Test Group		VFMXD07.373K		Evaporative/Refueling Family		VFMXR0360NHJ	
Evaporative/Refueling Family		VFMXR0360NHJ		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		VFMXR0360NHJ		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		VFMXR0360NHJ		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		
Evaporative/Refueling Family		VFMXR0360NHJ		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		VFMXR0360NHJ		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		

Certification Summary Information Report

Test Group		VFMXD07.373K		Evaporative/Refueling Family		VFMXR0360NHJ	
Evaporative/Refueling Family		VFMXR0360NHJ		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		VFMXR0360NHJ		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		VFMXR0360NHJ		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		VFMXR0360NHJ		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		VFMXR0360NHJ		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	--		

Certification Summary Information Report

Test Group		VFMXD07.373K	Evaporative/Refueling Family	VFMXR0360NHJ
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		VFMXD07.373K	Evaporative/Refueling Family		VFMXR0360NHJ
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	

Certification Summary Information Report

Test Group		VFMXD07.373K	Evaporative/Refueling Family		VFMXR0360NHJ
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		VFMXD07.373K	Evaporative/Refueling Family		VFMXR0360NHJ
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	



SECTION 8

Emission Testing Waiver Statements

Refer to Section 14.01.00.00 of Common Section for
Statements of Compliance.



SECTION 8

Emission Testing Waiver Statements and Statements of Compliance

Statement of Compliance for test group VFMXD07.373K

Ford Motor Company's test and production vehicles do not have defeat devices. All AECDs have been declared and described in the application. This test group has been designed and engineered to comply with 40 CFR 86.1809-12 (prohibition of defeat devices), satisfies 40 CFR 86.1844-01 (application submittal requirements for AECDs), and does not utilize alternate emissions control maps that are unique for testing purposes relative to on road operation.

Is the transmission part of any AECD, for example, by receiving outputs from the ECU or providing inputs to the ECU, in any emission control strategy, for example, engine and/or catalyst warm-up?

If yes, please describe, including purpose, entry/exit conditions, actuations, and justifications.

Ford describes the transmission controls and potential interaction effects within the confidential AECD documentation found in section 6.05.00 of the common section area of the application submittals. This documentation covers the purpose, inputs, controlled actions, and justifications. For example, as referenced in the Drive Speed Control section of that document, the transmission can receive requests from the ECU to delay upshifts based on cold engine coolant temperature and/or low inferred catalyst temperature to assist with engine or catalyst warm-up.

Does the transmission behave and perform the same as, or differently than, while on road versus on a dynamometer?
Please explain any differences.

Ford does not attempt to discern whether the vehicle is operating on a dynamometer or on the road. However, there are certain conditions that can cause the transmission to operate differently based on the sensed inputs that may not be encountered during dynamometer testing. For example, when climbing grades or when towing, the transmission will make gear ratio adjustments to compensate against excessive engine lugging and reduced vehicle response. There can also be unique transmission scheduling in different customer selectable drive modes, such as EcoSelect, Sport, Snow, Rock Crawl, etc. The types of conditions that are anticipated to cause transmission adjustments are described in the confidential AECD descriptions located in 16.05.00 of the common section. For customer-selectable drive modes that could reasonably be driven over emission test cycles, Ford evaluates emission performance to assure that these modes meet applicable emission standards.

Special dynamometer test modes are required for certain vehicle technologies such as start/stop and HEVs to assure that fault conditions are not set while operating on two-wheel drive dynamometers. This allows the vehicles to behave normally, as they would on the road, rather than causing default/FMEM actions to occur due to significant wheel speed differences between the front and rear axles.

For additional statements of compliance, please refer to Section 14.01.00.00 of the Common Section.



SECTION 12

Description of Vehicles Covered by Certificate and Testing Parameters

12.00.01.00 Common Family Parameters

Test Group: VFMXD07.373K - Engine Config Param 1

Test Group Information :	
Vehicle/Engine Class	M7,HDV2
Vehicle Fuel Category	Single Fuel
Operating Fuel 1	Gasoline
Operating Fuel 2	N/A
Engine Displacement (liters)	7.3
SAE net HP @ RPM	412 @ 5350 RPM
SAE net torque ft-lb @ RPM	442 @ 4000 RPM
VECI - Emission Control System	
Air Aspiration Method	Naturally aspirated
Charge Air Cooler Type	N/A
Exhaust Gas Recirculation (EGR)	No
Cooled EGR	No
Air injection Type (AIR)	Not Applicable
After-Treatment Type	Three-way catalyst
Fuel Metering System 1	Multipoint/sequential fuel injection
Fuel Metering System 2	N/A
Heated oxygen sensor (HO ₂ S)	Yes
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO ₂ S)	Yes
Feedback Sensor Configuration	2 HO ₂ S; 2 WR-HO ₂ S
Shift Schedules	See Common Section
EVAP Canister working Capacity	See Common Section
EVAP Canister Bed Volume	See Common Section
Fuel Tank Temperature Profile	See Common Section

12.00.02.00 Calibration Descriptions - VFMXD07.373K

<u>Cert Code</u>	<u>Exhaust Calibration</u>	<u>Evaporative Family</u>	<u>Application</u>	<u>Transmission</u>	<u>Leak Check</u>	<u>Vehicle</u>
VTFHJ0NA0002	VTFHJ0NA05	VFMXR0250NHJ	50S	Auto (10R140)	0.02	F-250/F-350 34.5 gal, 10k – 14k GVWR
VTFHJ0NE0002	VTFHJ0NE05			Auto (10R100)		
VTFHJ0NC0002	VTFHJ0NC05	VFMXR0360NHJ	50S	Auto (10R140)	0.02	F-250/F-350 48.9 gal, 10k – 14k GVWR
VTFHJ0NG0002	VTFHJ0NG05			Auto (10R100)		

Reference Specifications

Spark Plug: CYFS12NPG; Gap: 1.04 – 1.20 mm

Ignition Timing °BTDC (No SPOUT connector) PCM Controlled
 Idle RPM PCM Controlled
 Target (Base) in Drive; (A/C-off/ A/C-on) 525

Special conditions which may require idle speeds higher than Base are listed below. (See Section 16.05 for descriptions of these strategies):

<u>Potential Idle/Drive Speed Modifier</u>	<u>Function Utilized (Y/ N)</u>	<u>Purpose</u>
Low or high air charge temperature	N	Heater, A/C or engine cooling performance
Low catalyst temperature	Y	Achieve/maintain light off
Low engine coolant temperature	Y	Combustion stability
Low or high ambient temperature	Y	Heater or A/C performance
High transmission oil temperature	N	Ensure adequate fluid pressure
Low battery voltage	Y	Avoid stalling or no-start
High Alternator load	N	Preserve battery life and avoid low voltage
High-speed fan operation	N/A	For engine and A/C condenser cooling
Extended neutral idle time	Y	Maintain catalyst temperature and protect valve train
Power steering pressure	Y	Ensure adequate P/S assistance (non AFS only)
High Altitude	Y	Maintain air mass flow to avoid stalling
Alternate calibration	Y	Avoid spark plug fouling during plant/dealer handling
Drive Speed Control or Shift Delay	Y	Increase engine speed to improve cabin heating or cooling

1 – Justification provided for AECD systems (i.e. sense operating conditions and control the function of an emission component) and not for the individual components.

2 – See Section 16.05 for Strategy Control Systems descriptions

3 – "FTP" represents all tests required for certification

* – indicates that ending characters on some parameter names may vary

Test Group: VFMXD07.373K

Issued: 4/17/2026

Revised:

12.00.02.00 Calibration Descriptions, continued

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
<u>ELECTRONICS – PCM²</u>				
<u>FUEL</u>				
Fuel Injector	Signal from PCM	Fuel flow	N/A	Static Flow: 4.14 +/- 0.13 g/sec (@270kPa)
Fuel Pump	Signal from PCM	Fuel Flow	N/A	Nom Rated Flow: 258 lph (@ 435 kPa-12.5V)
Torque Based Electronic Throttle control	Signal from PCM	None	Operates in FTP	87 ± 0.3 mm Throttle Diameter
Fuel System Control Strategy ²				
Open loop enrichment for driver torque demand	Throttle Position or Pedal Position or Engine LOAD, and Engine RPM	Air-Fuel Ratio (LAMBSE)	Protection against damage or accident; provides additional power under extended torque demand	See Section 16.00.05.00 for air-fuel calibration (LAMBSE) in function ol_lam_pwr_a_m* (a separate LAM_F table is utilized only for FFVs) and the entry conditions in function ol_tm_pwr_dly_a_m
Open Loop Delay Timers	Time and Gear	Delay open loop fuel	Allows time for downshift; limit enrichment to unusual conditions	See Section 16.00.05.00 for delay time calibration ol_tm_pwr_dly_a_m and the maximum non-stoichiometric count-up time, PWR_DELAYMAX
Open Loop Enrichment Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either CAT_MAX_LO and CAT_MAX_HI and the time delay on CAT_MAX_LO, CAT_TMR_THRES
Open Loop Enrichment EGO Protection	Inferred Oxygen Sensor Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred EGO temperature to trigger enrichment, FEGO_MAX
Open Loop Enrichment Engine/Exhaust Manifold Protection	Inferred Exhaust Manifold Flange Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred exhaust flange temperature, FLN_MAX_LO and FLN_MAX_HI and the time delay on FLN_MAX_LO, FLN_TMR_THRES
Open Loop Enrichment following Deceleration Fuel Shut-Off (DFSO)	Injector state, inferred catalyst O ₂ stored, and CMS voltage	Air-Fuel Ratio (LAMBSE)	Substantially demonstrated on FTP	See Section 16.00.05.00 for air-fuel ratio utilized following fuel shut-off event, LAM_REACT
<u>CRANKCASE</u>				
PCV Valve	Manifold Vacuum	Air flow to engine	Operates in FTP	4L2E-6A666-BC 3.50 – 5.10 SCFM @ 3" Hg 2.60 – 3.60 SCFM @ 8" Hg 1.30 - 1.80 SCFM @ 15" Hg

¹ – Justification provided for AECD systems (i.e. sense operating conditions and control the function of an emission component) and not for the individual components.

² – See Section 16.05 for Strategy Control Systems descriptions

³ – "FTP" represents all tests required for certification

* – indicates that ending characters on some parameter names may vary

Test Group: VFMXD07.373K

Issued: 4/17/2026

Revised:

12.00.02.00 Calibration Descriptions, continued

Emission Component	Sensed Parameter	Controlled Parameter	Justification¹	Calibration
<u>VCT Control Strategy</u>				
Cam timing based on requested torque and percent torque	Requested Torque, Percent Torque, Engine Speed, and Load	Cam Phase Timing	Demonstrated on FTP ³	See Section 16.00.05.00 for FNHDFX_BEST_FE_DIST
Cam timing limitation For combustion stability At low loads	Requested Torque and Engine Speed	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 FNHDFX_OPSTAB_RPM_DPL_DIST
Cam actuator limitation for oil temperature	Oil Temperature; or Time-since-start and ECT-at-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for FNHDFX_FNEOT_EXH
Cam actuator limitation for start-up	Engine Coolant Temp. At Start and Time-Since-Start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 fnvct_enable_delay
Cam retard limitation Under high torque demand	Engine Speed and Requested Desired Percent Load	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for FNHDFX_BEST_DRIVE_DIST
Cam Timing limitations for high engine speeds	Engine speed	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 FNHDFX_FNEOT_EXH
<u>ENGINE COOLING</u>				
Thermostat	Coolant Temperature	Coolant Flow	Engine Protection	Start to Open: 192° F

1 – Justification provided for AECD systems (i.e. sense operating conditions and control the function of an emission component) and not for the individual components.

2 – See Section 16.05 for Strategy Control Systems descriptions

3 – "FTP" represents all tests required for certification

* – indicates that ending characters on some parameter names may vary

Test Group: VFMXD07.373K

Issued: 4/17/2026

Revised:

2027 MY Exhaust Emissions Parts List
Test Group: VFMXD07.373K

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
F250 PICKUP 2WD, F250 PICKUP 4WD, F350 PICKUP 2WD, F350 PICKUP 4WD	Initial	VTFHJ0NA0002	VTFHJ0NA05	PVC3A-12A650-AFC	03/04/2026
F250 PICKUP 2WD, F250 PICKUP 4WD, F350 PICKUP 2WD, F350 PICKUP 4WD	Initial	VTFHJ0NC0002	VTFHJ0NC05	PVC3A-12A650-AHC	03/04/2026
F250 PICKUP 2WD, F250 PICKUP 4WD, F350 PICKUP 2WD, F350 PICKUP 4WD	Initial	VTFHJ0NE0002	VTFHJ0NE05	PVC3A-12A650-NC	03/04/2026
F250 PICKUP 2WD, F250 PICKUP 4WD, F350 PICKUP 2WD, F350 PICKUP 4WD	Initial	VTFHJ0NG0002	VTFHJ0NG05	PVC3A-12A650-SC	03/04/2026

****ALL OTHER EXHAUST EMISSION PARTS****

Engine Family: VFMXD07.373K 2027MY 7.3L F250/F350

<u>Part Name</u>	<u>Part Number</u>	<u>Comments</u>
Catalyst	VC34-5F250-GA	
Electronic Throttle Body	PC3E-9F991-AA	
Fuel Injector (PFI)	VC3E-9F593-AA	
Heated Air/Fuel Sensor (WR-HO2S)	VC3A-9Y460-BA VC3A-9Y460-CA	LHS RHS with push pin connector
Heated Oxygen Sensor (CMS)	VC3A-9G444-BC	
PCV Valve	KR3E-6A666-CA	
Fuel Pressure Regulator (Low Pressure)	RC34-9C375-AA	
Fuel Pump Low Pressure	PC34-9350-AA	

2027 TEST VEHICLE REQUIREMENTS

	Evaporative Emission Vehicle	Evaporative Emission Vehicle	Exhaust Emission Vehicle
Test Group	LFMXD06.26CH	LFMXD06.26BC	VFMXD07.373K
Evap Emission Family	LFMXR0250NHJ	LFMXF0360NHJ	VFMXR0360NHJ
Displacement	6.2L	6.2L	7.3L
Engine Code	LTFER4NE05	LTFETRNG05	VTFHJ0NC00
Fuel Tank Capacity	34.5 Gal	48.9 Gal	48.9 Gal
Exhaust Control System	2HO2S; 2WR-HO2S	2HO2S; 2WR-HO2S	TWC/HO2S/WR-HO2S/SFI
Model	F350 4x4	F350 4x4	F-350 4x4
Transmission	Semi-Auto-10	Semi-Auto-10	Semi-Auto-10
Equivalent Test Weight	9500	9500	11000
Curb Weight	8742	9000	7599
GVWR	10000	10000	14000
THP/DPA	56.3 / f0=72.06, f1=1.1573, f2=0.11685	56.3 / f0=72.06, f1=1.1573, f2=0.11685	34.4 / f0=85.35, f1=0.4866, f2=0.05942
Axle Ratio	4.3	4.3	4.3
N/V Ratio - RPM/MPH	30.0	30.0	30.0
Tires	LT245/75R17	LT245/75R17	LT245/75R17
Vehicle ID No	LFE1-6.2-571	LFE1-6.2-J-578	VFH1-7.3-J-287
Configuration Number	0	0	0
Model Year	2020	2020	2027

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303518	5303507	5303504	5303521	5303517	5303592	5303982	5303980
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NG0002	VTFHJ0NG0002
Fuel Tank(s)	TT	TT	TT	TT	TT	TT	TX	TX
Carline	F250 PICKUP 2WD	F250 PICKUP 2WD	F250 PICKUP 2WD	F250 PICKUP 2WD	F250 PICKUP 2WD	F250 PICKUP 2WD	F250 PICKUP 2WD	F250 PICKUP 2WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Cab	Super Cab	Super Cab	Super Cab	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	148.0	148.0	164.0	164.0	160.0	160.0	175.5	175.5
Transcode Combo	GFA	GFA	GFA	GFA	GFA	GFA	GFA	GFA
Curb Weight	6153	6153	6261	6261	6200	6200	6424	6424
ETW	6500	6500	6500	6500	6500	6500	6500	6500
Loaded Weight LVW	6453	6453	6561	6561	6500	6500	6724	6724
ALVW-ETW	8000	8000	8500	8500	8000	8000	8500	8500
Adj. Loaded Weight	8126	8126	8331	8331	8150	8150	8412	8412
GVWR	10100	10100	10400	10400	10100	10100	10400	10400
GCWR	23500	26000	23500	26000	23500	26000	23500	26000
Min Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Max Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Min N/V Ratio	25.7	29.6	25.7	29.6	25.7	29.6	25.7	29.6
Max N/V Ratio	26.2	30.2	26.2	30.2	26.2	30.2	26.2	30.2
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 26.2	LT245/75R17 - 30.2	LT245/75R17 - 26.2	LT245/75R17 - 30.2	LT245/75R17 - 26.2	LT245/75R17 - 30.2	LT245/75R17 - 26.2	LT245/75R17 - 30.2
Max Tire Size	LT275/65R18 - 25.7	LT275/65R18 - 29.6	LT275/65R18 - 25.7	LT275/65R18 - 29.6	LT275/65R18 - 25.7	LT275/65R18 - 29.6	LT275/65R18 - 25.7	LT275/65R18 - 29.6
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2635	2635	2643	2643	2642	2642	2776	2776
DAW Empty Tank	2492	2492	2495	2495	2495	2495	2583	2583

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303422	5303483	5303516	5303508	5303503	5303511	5303505	5303514
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NA0002	VTFHJ0NC0002	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NE0002
Fuel Tank(s)	TT	TX	TT	TT	TT	TT	TT	TT
Carline	F250 PICKUP 4WD	F250 PICKUP 4WD	F250 PICKUP 4WD	F250 PICKUP 4WD	F250 PICKUP 4WD	F250 PICKUP 4WD	F250 PICKUP 4WD	F250 PICKUP 4WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Regular Cab	Super Cab	Super Cab	Super Cab	Super Cab
Wheelbase	160.0	175.5	142.0	142.0	148.0	148.0	164.0	164.0
Transcode Combo	ESC	ESC	GFA	GFA	GFA	GFA	GFA	GFA
Curb Weight	6844	7147	6319	6319	6646	6646	6705	6705
ETW	7000	7500	6500	6500	7000	7000	7000	7000
Loaded Weight LVW	7144	7447	6619	6619	6946	6946	7005	7005
ALVW-ETW	8500	9000	8500	8500	8500	8500	8500	8500
Adj. Loaded Weight	8572	8874	8309	8309	8523	8523	8652	8652
GVWR	10300	10600	10300	10300	10400	10400	10600	10600
GCWR	26000	26000	23500	26000	23500	26000	23500	26000
Min Axle Ratio	4.3	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Max Axle Ratio	4.3	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Min N/V Ratio	27.1	27.1	24.2	27.9	24.2	27.9	24.2	27.9
Max N/V Ratio	27.1	27.1	26.2	30.2	26.2	30.2	26.2	30.2
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT285/75R18 - 27.1	LT285/75R18 - 27.1	LT245/75R17 - 26.2	LT245/75R17 - 30.2	LT245/75R17 - 26.2	LT245/75R17 - 30.2	LT245/75R17 - 26.2	LT245/75R17 - 30.2
Max Tire Size	LT285/75R18 - 27.1	LT285/75R18 - 27.1	LT285/70R17 - 25.2	LT285/70R17 - 29	LT285/70R17 - 25.2	LT285/70R17 - 29	LT285/70R17 - 25.2	LT285/70R17 - 29
Alt Tire 1			LT275/65R18 - 25.7	LT275/70R18 - 28.7	LT275/65R18 - 25.7	LT275/65R18 - 29.6	LT275/70R18 - 24.9	LT275/65R18 - 29.6
Alt Tire 2			LT275/70R18 - 24.9	LT275/65R18 - 29.6	LT275/65R20 - 24.2	LT275/65R20 - 27.9	LT275/65R20 - 24.2	LT275/65R20 - 27.9
Alt Tire 3			LT275/65R20 - 24.2	LT275/65R20 - 27.9	LT275/70R18 - 24.9	LT275/70R18 - 28.7	LT275/65R18 - 25.7	LT275/70R18 - 28.7
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2848	2955	2542	2542	2734	2734	2704	2704
DAW Empty Tank	2701	2762	2403	2403	2592	2592	2555	2555

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303534	5303509	5303976	5303977	5303403	5303408	5303376	5303459
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NE0002	VTFHJ0NE0002	VTFHJ0NG0002	VTFHJ0NG0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002
Fuel Tank(s)	TT	TT	TX	TX	TT	TT	TT	TT
Carline	F250 PICKUP 4WD	F250 PICKUP 4WD	F250 PICKUP 4WD	F250 PICKUP 4WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Super Crew	Super Crew	Regular Cab	Regular Cab	Regular Cab	Regular Cab
Wheelbase	160.0	160.0	175.5	175.5	142.0	142.0	142.0	142.0
Transcode Combo	GFA	GFA	GFA	GFA	ESC	ESC	ESC	ESC
Curb Weight	6631	6631	6934	6934	6553	6553	6167	6167
ETW	7000	7000	7000	7000	7000	7000	6500	6500
Loaded Weight LVW	6931	6931	7234	7234	6853	6853	6467	6467
ALVW-ETW	8500	8500	9000	9000	10500	10500	8500	8500
Adj. Loaded Weight	8566	8566	8767	8767	10277	10277	8333	8333
GVWR	10500	10500	10600	10600	14000	14000	10500	10500
GCWR	23500	26000	23500	26000	25700	29500	23600	29000
Min Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Max Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Min N/V Ratio	24.2	27.9	24.2	27.9	26.0	30.0	25.5	29.4
Max N/V Ratio	26.2	30.2	26.2	30.2	26.0	30.0	25.5	29.4
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 26.2	LT245/75R17 - 30.2	LT245/75R17 - 26.2	LT245/75R17 - 30.2	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4
Max Tire Size	LT285/70R17 - 25.2	LT285/70R17 - 29	LT285/70R17 - 25.2	LT285/70R17 - 29	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4
Alt Tire 1	LT275/70R18 - 24.9	LT275/65R20 - 27.9	LT275/70R18 - 24.9	LT275/65R18 - 29.6				
Alt Tire 2	LT275/65R20 - 24.2	LT275/65R18 - 29.6	LT275/65R18 - 25.7	LT275/65R20 - 27.9				
Alt Tire 3	LT275/65R18 - 25.7	LT275/70R18 - 28.7	LT275/65R20 - 24.2	LT275/70R18 - 28.7				
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2691	2691	2799	2799	3025	3025	2652	2652
DAW Empty Tank	2544	2544	2606	2606	2886	2886	2511	2511

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303439	5303364	5303456	5303437	5303378	5303409	5303431	5303433
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002
Fuel Tank(s)	TT	TT	TT	TT	TT	TT	TT	TT
Carline	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Cab	Super Cab	Super Cab	Super Cab	Super Cab	Super Cab	Super Cab	Super Cab
Wheelbase	148.0	148.0	148.0	148.0	164.0	164.0	164.0	164.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6417	6417	6477	6477	6528	6528	6585	6585
ETW	6500	6500	7000	7000	7000	7000	7000	7000
Loaded Weight LVW	6717	6717	6777	6777	6828	6828	6885	6885
ALVW-ETW	8500	8500	8500	8500	8500	8500	8500	8500
Adj. Loaded Weight	8258	8258	8539	8539	8464	8464	8742	8742
GVWR	10100	10100	10600	10600	10400	10400	10900	10900
GCWR	23600	29000	23600	29000	23600	29000	23600	29000
Min Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Max Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Min N/V Ratio	26.0	30.0	25.5	29.4	26.0	30.0	25.5	29.4
Max N/V Ratio	26.0	30.0	25.5	29.4	26.0	30.0	25.5	29.4
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4
Max Tire Size	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2823	2823	2859	2859	2833	2833	2845	2845
DAW Empty Tank	2679	2679	2717	2717	2684	2684	2696	2696

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303423	5303413	5303443	5303398	5303472	5303473	5303467	5303474
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NC0002	VTFHJ0NC0002	VTFHJ0NC0002	VTFHJ0NC0002
Fuel Tank(s)	TT	TT	TT	TT	TX	TX	TX	TX
Carline	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	160.0	160.0	160.0	160.0	175.5	175.5	175.5	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6504	6504	6562	6562	7240	7240	6719	6719
ETW	7000	7000	7000	7000	7500	7500	7000	7000
Loaded Weight LVW	6804	6804	6862	6862	7540	7540	7019	7019
ALVW-ETW	8500	8500	8500	8500	10500	10500	8500	8500
Adj. Loaded Weight	8352	8352	8631	8631	10620	10620	8659	8659
GVWR	10200	10200	10700	10700	14000	14000	10600	10600
GCWR	23600	29000	23600	29000	25700	29500	23600	29000
Min Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Max Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	3.73	4.3
Min N/V Ratio	26.0	30.0	25.5	29.4	26.0	30.0	26.0	30.0
Max N/V Ratio	26.0	30.0	25.5	29.4	26.0	30.0	26.0	30.0
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT245/75R17 - 26	LT245/75R17 - 30	LT245/75R17 - 26	LT245/75R17 - 30
Max Tire Size	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT245/75R17 - 26	LT245/75R17 - 30	LT245/75R17 - 26	LT245/75R17 - 30
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2870	2870	2907	2907	3348	3348	2873	2873
DAW Empty Tank	2722	2722	2759	2759	3155	3155	2679	2679

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303489	5303498	5303614	5303416	5303380	5303374	5303363	5303368
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NC0002	VTFHJ0NC0002	VTFHJ0NE0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002
Fuel Tank(s)	TX	TX	TT	TT	TT	TT	TT	TT
Carline	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 2WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Regular Cab	Regular Cab	Regular Cab	Regular Cab	Regular Cab	Regular Cab
Wheelbase	175.5	175.5	142.0	142.0	142.0	142.0	142.0	142.0
Transcode Combo	ESC	ESC	GFA	ESC	ESC	ESC	ESC	ESC
Curb Weight	6777	6777	6078	6982	6982	6613	6613	6671
ETW	7000	7000	6500	7500	7500	7000	7000	7000
Loaded Weight LVW	7077	7077	6378	7282	7282	6913	6913	6971
ALVW-ETW	9000	9000	10000	10500	10500	8500	8500	9000
Adj. Loaded Weight	8938	8938	10039	10491	10491	8506	8506	8785
GVWR	11100	11100	14000	14000	14000	10400	10400	10900
GCWR	23600	29000	26000	25700	29500	23600	29000	23600
Min Axle Ratio	3.73	4.3	4.3	3.73	4.3	3.73	4.3	3.73
Max Axle Ratio	3.73	4.3	4.3	3.73	4.3	3.73	4.3	3.73
Min N/V Ratio	25.5	29.4	30.2	26.0	30.0	25.0	28.9	25.5
Max N/V Ratio	25.5	29.4	30.2	26.0	30.0	26.0	30.0	25.5
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT245/75R17 - 30.2	LT245/75R17 - 26	LT245/75R17 - 30	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5
Max Tire Size	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT245/75R17 - 30.2	LT245/75R17 - 26	LT245/75R17 - 30	LT285/70R17 - 25	LT285/70R17 - 28.9	LT275/65R18 - 25.5
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2910	2910	2686	3121	3121	2778	2778	2815
DAW Empty Tank	2716	2716	2547	2982	2982	2638	2638	2675

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303388	5303367	5303395	5303366	5303356	5303373	5303359	5303360
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002
Fuel Tank(s)	TT	TT	TT	TT	TT	TT	TT	TT
Carline	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Regular Cab	Regular Cab	Regular Cab	Super Cab	Super Cab	Super Cab	Super Cab	Super Cab
Wheelbase	142.0	142.0	142.0	148.0	148.0	148.0	148.0	148.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	6671	6676	6676	6991	6991	7048	7048	7053
ETW	7000	7000	7000	7500	7500	7500	7500	7500
Loaded Weight LVW	6971	6976	6976	7291	7291	7348	7348	7353
ALVW-ETW	9000	9000	9000	8500	8500	9000	9000	9000
Adj. Loaded Weight	8785	9038	9038	8745	8745	9024	9024	9226
GVWR	10900	11400	11400	10500	10500	11000	11000	11400
GCWR	29000	23600	29000	23600	29000	23600	29000	23600
Min Axle Ratio	4.3	3.73	4.3	3.73	4.3	3.73	4.3	3.73
Max Axle Ratio	4.3	3.73	4.3	3.73	4.3	3.73	4.3	3.73
Min N/V Ratio	29.4	24.0	27.7	25.0	28.9	25.5	29.4	24.0
Max N/V Ratio	29.4	24.7	28.5	26.0	30.0	25.5	29.4	24.7
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R18 - 29.4	LT275/65R20 - 24	LT275/65R20 - 27.7	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT275/65R20 - 24
Max Tire Size	LT275/65R18 - 29.4	LT275/70R18 - 24.7	LT275/70R18 - 28.5	LT285/70R17 - 25	LT285/70R17 - 28.9	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT275/70R18 - 24.7
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2815	2817	2817	2990	2990	3017	3017	3019
DAW Empty Tank	2675	2677	2677	2848	2848	2875	2875	2877

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303361	5303393	5303370	5303389	5303375	5303424	5303414	5303357
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002
Fuel Tank(s)	TT	TT	TT	TT	TT	TT	TT	TT
Carline	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Cab	Super Cab	Super Cab	Super Cab	Super Cab	Super Cab	Super Cab	Super Crew
Wheelbase	148.0	164.0	164.0	164.0	164.0	164.0	164.0	160.0
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7053	7028	7028	7086	7086	7091	7091	7052
ETW	7500	7500	7500	7500	7500	7500	7500	7500
Loaded Weight LVW	7353	7328	7328	7386	7386	7391	7391	7352
ALVW-ETW	9000	9000	9000	9000	9000	9500	9500	9000
Adj. Loaded Weight	9226	8914	8914	9193	9193	9446	9446	8826
GVWR	11400	10800	10800	11300	11300	11800	11800	10600
GCWR	29000	23600	29000	23600	29000	23600	29000	23600
Min Axle Ratio	4.3	3.73	4.3	3.73	4.3	3.73	4.3	3.73
Max Axle Ratio	4.3	3.73	4.3	3.73	4.3	3.73	4.3	3.73
Min N/V Ratio	27.7	25.0	28.9	25.5	29.4	24.0	27.7	25.0
Max N/V Ratio	28.5	26.0	30.0	25.5	29.4	24.7	28.5	26.0
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT275/65R20 - 27.7	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT275/65R20 - 24	LT275/65R20 - 27.7	LT245/75R17 - 26
Max Tire Size	LT275/70R18 - 28.5	LT285/70R17 - 25	LT285/70R17 - 28.9	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT275/70R18 - 24.7	LT275/70R18 - 28.5	LT285/70R17 - 25
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3019	2939	2939	2976	2976	2978	2978	3018
DAW Empty Tank	2877	2790	2790	2827	2827	2829	2829	2871

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303383	5303377	5303436	5303369	5303404	5303442	5303479	5303490
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NA0002	VTFHJ0NC0002	VTFHJ0NC0002
Fuel Tank(s)	TT	TT	TT	TT	TT	TT	TX	TX
Carline	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	DUAL REAR WHEELS	DUAL REAR WHEELS
Body Style	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	160.0	160.0	160.0	160.0	160.0	160.0	175.5	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7052	7110	7110	7115	7115	7115	7599	7599
ETW	7500	7500	7500	7500	7500	7500	8000	8000
Loaded Weight LVW	7352	7410	7410	7415	7415	7415	7899	7899
ALVW-ETW	9000	9000	9000	9500	9500	9500	11000	11000
Adj. Loaded Weight	8826	9105	9105	9307	9307	9307	10800	10800
GVWR	10600	11100	11100	11499	11499	11499	14000	14000
GCWR	29000	23600	29000	23600	28600	29000	25700	29500
Min Axle Ratio	4.3	3.73	4.3	3.73	4.3	4.3	3.73	4.3
Max Axle Ratio	4.3	3.73	4.3	3.73	4.3	4.3	3.73	4.3
Min N/V Ratio	28.9	25.5	29.4	24.0	27.1	27.1	26.0	30.0
Max N/V Ratio	30.0	25.5	29.4	24.7	27.1	28.5	26.0	30.0
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT275/65R20 - 24	LT285/75R18 - 27.1	LT275/65R20 - 27.7	LT245/75R17 - 26	LT245/75R17 - 30
Max Tire Size	LT285/70R17 - 28.9	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT275/70R18 - 24.7	LT285/75R18 - 27.1	LT285/75R18 - 27.1	LT245/75R17 - 26	LT245/75R17 - 30
Alt Tire 1						LT275/70R18 - 28.5		
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	3018	3055	3055	3057	3057	3057	3400	3400
DAW Empty Tank	2871	2908	2908	2910	2910	2910	3206	3206

Vehicle Description Report

Test Group: VFMXD07.373K

ID Number	5303468	5303470	5303481	5303494	5303480	5303486	5303488
Displacement	7.3	7.3	7.3	7.3	7.3	7.3	7.3
Cert Code	VTFHJ0NC0002	VTFHJ0NC0002	VTFHJ0NC0002	VTFHJ0NC0002	VTFHJ0NC0002	VTFHJ0NC0002	VTFHJ0NC0002
Fuel Tank(s)	TX	TX	TX	TX	TX	TX	TX
Carline	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD	F350 PICKUP 4WD
Wheel Configuration	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS	SINGLE REAR WHEELS
Body Style	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	175.5	175.5	175.5	175.5	175.5	175.5	175.5
Transcode Combo	ESC	ESC	ESC	ESC	ESC	ESC	ESC
Curb Weight	7247	7247	7305	7305	7310	7310	7310
ETW	7500	7500	7500	7500	7500	7500	7500
Loaded Weight LVW	7547	7547	7605	7605	7610	7610	7610
ALVW-ETW	9000	9000	9500	9500	9500	9500	9500
Adj. Loaded Weight	9073	9073	9302	9302	9605	9605	9605
GVWR	10900	10900	11300	11300	11900	11900	11900
GCWR	23600	29000	23600	29000	23600	28600	29000
Min Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	4.3
Max Axle Ratio	3.73	4.3	3.73	4.3	3.73	4.3	4.3
Min N/V Ratio	25.0	28.9	25.5	29.4	24.0	27.1	27.7
Max N/V Ratio	26.0	30.0	25.5	29.4	24.7	27.1	28.5
Emission Vehicle Class	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2	HDV2
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	LT245/75R17 - 26	LT245/75R17 - 30	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT275/65R20 - 24	LT285/75R18 - 27.1	LT275/65R20 - 27.7
Max Tire Size	LT285/70R17 - 25	LT285/70R17 - 28.9	LT275/65R18 - 25.5	LT275/65R18 - 29.4	LT275/70R18 - 24.7	LT285/75R18 - 27.1	LT275/70R18 - 28.5
Alt Tire 1							
Alt Tire 2							
Alt Tire 3							
Alt Tire 4							
Alt Tire 5							
Alt Tire 6							
Alt Tire 7							
DAW Full Tank	3032	3032	3069	3069	3071	3071	3071
DAW Empty Tank	2838	2838	2875	2875	2877	2877	2877



SECTION 14

Request for Certification



Vehicle Homologation & Compliance
Environmental & Safety Compliance

Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W-200
Allen Park, Michigan 48101-2053

April 16, 2026

Ms. Hannah Frame
Certification Division
Mobile Source Pollution Control
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Dear Ms. Frame:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2027 model year heavy-duty vehicles (HDVs) contained in Ford's 50-State test group VFMXD07.373K and evaporative emission families VFMXR0250NHJ and VFMXR0360NHJ. Federal Tier-3 fuel was used for exhaust emission tests.

The EPA Final Tier 3 certification and in-use exhaust emission standards applicable to this test group are:

Certification and In-Use FTP Standards (g/mi)	Useful Life	NMOG + NOx (g/mi)	CO (g/mi)	HCHO (g/mi)	PM (g/mi)	N2O (g/mi)	CH4 (g/mi)
Tier 3 Bin 230	150K	0.230	4.2	0.006	0.010	0.05	0.05

This test group meets the SFTP NMOG+NOx Composite Family Emission Limit (FEL) of 0.350 g/mi and CO FEL of 4 g/mi.

The EPA Tier 3 certification and in-use evaporative emission standards applicable to this test group are:

Tier 3	Useful Life	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Evaporative Standards VFMXR0250NHJ VFMXR0360NHJ	150K	0.600 grams per test	0.600 grams per test	0.05 g/mi	0.20 g/mi	0.030 g/mi

The Fuel Spitback standard is 1.0 gram per test for this Testgroup.

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out 1, subject: Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2024 model year gasoline powered light-duty vehicles (LDVs) contained in Ford's 50 states test group, dated June 12, 2024. Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85 including the provisions of 86 and 600, Ford requests that a Certificate of Conformity be issued for the HDV test group listed in this Application for Certification.

Please contact Nick Snow at 313-319-6452 or nsnow6@ford.com, if you have any questions regarding this submission.

Sincerely,

DocuSigned by:
Lawrence H. Merritt, Jr.
DF6ED4749EAC46B...

Lawrence H. Merritt, Jr.
Manager, Emissions Certification
Homologation, & Compliance



**Vehicle Homologation & Compliance
Environmental & Safety Compliance**

**Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W200
Allen Park, Michigan 48101- 2053**

April 16, 2026

Ms. Robin U. Lang, Chief
Emissions Certification and Compliance Division
California Air Resources Board
4001 Iowa Ave.
Riverside CA 92507

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2027 model year powered medium-duty vehicles (MDVs) contained in Ford's 50-State (Federal/CA) test group VFMXD07.373K and evaporative emission families VFMXR0250NHJ and VFMXR0360NHJ. The test fuel used was Tier 3 E10. This application aligns with CARB's Manufacturers Advisory Correspondence (MAC) ECCD-2025-8 alternate pathway (1) described on page 2 as follows:

(1) An approved application for CARB certification to the vehicle and engine emission regulations that immediately preceded those covered by the waivers that were targeted by the congressional resolutions.

Ford intends submittal of this certification to facilitate CARB's review in order to ensure timely certification of Ford's vehicles as may be needed in accordance with applicable requirements. Ford is reserving its rights with regard to determining what requirements apply and which requirements can be enforced by CARB.

The FTP certification and in-use standards applicable to this test group for vehicle offered in California are as follows:

Certification and In-Use FTP Standards (g/mi)	Useful Life	NMOG + NOx (g/mi)	CO (g/mi)	HCHO (g/mi)	PM (g/mi)
LEV III SULEV230	150K	0.230	4.2	0.006	0.010

This test group meets the SFTP NMOG+NOx Composite Family Emission Limit (FEL) of 0.350 g/mi and CO FEL of 4 g/mi.

The evaporative certification and in-use standards applicable to this test group are as follows:

LEV III	Useful Life	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	BETP
Evaporative Standards VFMXR0250NHJ VFMXR0360NHJ	150K	0.600 grams per test	0.600 grams per test	0.05 g/mi	0.20 g/mi	0.030 g/mi

The Fuel Spitback standard is 1.0 gram per test for this Testgroup.

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # VPCD-99-06 (LDV, LDT, SVM), subject: "CAP 2000 Implementation: Guidance Documents and Workshop" dated April 22, 1999. This Application has also been prepared in accordance with the California Air Resources Board, Final Regulation Order, Amendments to Sections 1960.1, 1960.5, 1961, and 1962 Title 13, California Code of Regulations (As Amended August 4, 2005). Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14), Ford requests that an Executive Order be issued for the MDVs test group listed in this Application for Certification.

Additionally, Ford Motor Company is requesting the Air Resources Board approve the following Base Application for VFMXD07.373K. By signing this letter, Ford Motor Company is certifying that this model year's application package:

1. Is complete and named correctly using the appropriate eFiles and workflow naming conventions and submitted using the correct workflow process.

Please contact Nick Snow at 313-319-6452 or nsnow6@ford.com, if you have any questions regarding this submission.

Sincerely,

DocuSigned by:
Lawrence H. Merritt, Jr.
DF6ED4749EAC46B...

Lawrence H. Merritt, Jr.
Manager, Emissions Certification
Homologation, & Compliance

cc R. Uyehara



SECTION 15

Other Information

15.00.00.00

		SAP Manual Payment Request (North America)		REF NO: 306183					
NAME AND ADDRESS OF PAYEE Environmental Protection Agency-MVECP U.S. Bank - Government Lockbox 979032 1300 Pennsylvania Ave NW - Washington DC 20004-3002 The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically/ACH. REASON FOR DISBURSEMENT CERTIFICATION FEES - EPA STANDARD ENGINE FAMILY, EXHAUST EMISSION CONTROL SYSTEM				Employee	Ex-Employee / Board of Director	Company Code	Separate Check	Special Handling/ Instruction Key in S4	
							Y		
				Supplier Code		Due Date / Baseline Date	Currency	Amount	
				GXHSA		ASAP	USD	258,536.00	
Alternate Name & Address									
COMMENTS (Shown on Remittance Advice/Not to include PII)									
2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)									
GL Account	Profit Center	Cost Center	Internal Order	Reference Key1	Reference Key2	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
63044030	2000005001	1000017919				306183	1/15/2026	258,536.00	N
								-	
							TOTAL	258,536.00	
Pre-requisites for Payment :			1. Requestors or Approvers to ensure the following - Receipt of Service - Price Validation - Supported by invoice or other documentation 2. <u>Uses of Manual Payment Requests</u> 3. <u>Corporate Approval Authorities - Method of Payment</u>						
TYPE OF INVOICE:		MANUAL PAYMENT REQUEST -PERMISSIBLE USES (use drop down with Alt+down arrow key):				Uses of Manual Payment Requests		Not in Uses of Manual Payment Request	
Requestor					Operations Approval - Receipt of Service				
Preparer/Requestor		CDS ID TOLIVER		Date 1/15/2026		CDS ID LMERRIT2		Signed by: <i>Lawrence Merritt</i> 1/15/2026 DF6ED4749EAC46B...	
Approvals per Corporate Approval Authorities - Method of Payment									
Payment Item is on Uses of Manual Payment Requests					Payment Item is NOT on Uses of Manual Payment Requests				
Finance LL6+ Unlimited		CDS ID MBEDOLLA		Sign <i>Ryan Derderian</i>		CDS ID		Sign 	
				Date 1/15/2026					
It is important to protect personal data when retaining and forwarding this Payment Authorization Form and attachments, if any. Every effort must be made to prevent exposure.									
The space below may be used for additional local requirements									

EPA_MVECP_v1

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 01/07/2026

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

FMX

Manufacturer Name *

Ford Motor Company

Contact Name *

Tina Oliver

Contact Email Address *

Toliver@ford.com

Contact Phone *

313-323-8938

Calendar Year complete application submitted
to EPA *

2026

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2026, through December 31, 2026. The applicable fee is determined by the

year.

Engine Family / Evaporative Family / Test Group *

VFMXD07.373K

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

- ☒ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (Federal) (E, H)
- ☐ On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- ☐ On-Highway Motorcycle (C)
- ☐ On-Highway HDV Evap (F)
- ☐ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (California-Only) (E, H)
- ☐ Nonroad CI (L)
- ☐ Nonroad SI (B, S)
- ☐ Locomotive (G, K)
- ☐ All Nonroad Recreational, excluding Marine engines (X, Y)
- ☐ All Marine (Including IMO) (M, N, W)
- ☐ Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

\$32,317.00

Payment Type *

Offline ACH

Comments

NAS - Pay.gov Tracking ID: 27UHM99O

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).



SECTION 17

California ARB Requirements

VFMXD07.373K

Environmental Performance Label Report

VIEW EPL DATA																		
	Program Model Year	2027																
	PTVL	TFH																
	Group Name	VFMXD07.373K																
Model Year	Manufacturer	Make	Model Name	Test Group Name	Label Group	Cal Emission Std	Smog Rating	Fuel Type	ZEV?(Yes/No)	Flex and Dual-Fuel Veh(Yes/No)	CO2 City (FTP)	CO2 Hwy(HFET)	Comb CO2 Emission	CO2 City Value based on AD CO2 (Yes/No)? If yes, what is derived CO2 value?	CO2 Hwy Value based on AD CO2 (Yes/No)? If yes, what is derived CO2 value?	Comb CO2 based on AD CO2(Yes/No)? If yes, what is the derived Comb CO2 value?	GHG Rating	PTVL
2027	FORD	FORD	F-350 4x4	VFMXD07.373K		L3SULEV230	B	GASOLINE-EPA	No	No	898.5	586.9	758	No	No	No	D	TFH
2027	FORD	FORD	F-350 4x4	VFMXD07.373K		L3SULEV230	B	GASOLINE-TIER3 E10	No	No	873.4	573.8	739	No	No	No	D	TFH

VFMXD07.373K

VECI and EPL

45 MAX.	180 MAX.		
	FoMoCo	Ford Motor Company VEHICLE EMISSION CONTROL INFORMATION	
	Conforms to regulations: 2027 MY		
	U.S. EPA: T3B230 HDV	OBD: CA OBD II	FUEL: Gasoline
	California: SULEV230 MDV	OBD: CA OBD II	FUEL: Gasoline
	TWC/HO2S/WR-HO2S/SFI		No adjustments needed.
7.3L-Group: VFMXD07.373K Evap: VFMR0360NHJ		 ∇ VW7E-9C485- M L A	

45 MAX.	180 MAX.		
	FoMoCo	Ford Motor Company VEHICLE EMISSION CONTROL INFORMATION	
	Conforms to regulations: 2027 MY		
	U.S. EPA: T3B230 HDV	OBD: CA OBD II	FUEL: Gasoline
	California: SULEV230 MDV	OBD: CA OBD II	FUEL: Gasoline
	TWC/HO2S/WR-HO2S/SFI		No adjustments needed.
7.3L-Group: VFMXD07.373K Evap: VFMR0250NHJ		 ∇ VW7E-9C485- M X X	

California Air Resources Board		Gasoline Vehicle
Environmental Performance		
These ratings are not directly comparable to the U.S. EPA/DOT light-duty vehicle label ratings. For information on how to compare, please see www.arb.ca.gov/ep_label .		
Protect the environment. Choose vehicles with higher ratings :		
Greenhouse Gas Rating (tailpipe only)		Smog Rating (tailpipe only)
		
Vehicle emissions are a primary contributor to climate change and smog. Ratings are determined by the California Air Resources Board based on this vehicle's measured emissions.		
		



SECTION 18

Revisions

18.00.00.00