

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
Certificate Number	VFMXD06.761B-016	CARB Executive Order #	--
Certificate Issue Date	07/01/2026	Certificate Revision Date	--
Certificate Effective Date	07/01/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	07/24/2026 07:50:54 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
Diesel	Common Rail Direct Diesel Injection	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	M6, HDV1
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VFMXDPDNNF1A	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	Yes		
Introduction into Commerce Date	09/21/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VFMXD06.771D
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	3
OBD Deficiencies Comments	--		
Mfr Test Group Comments	F-Series Super Duty 8.5-10K GVWR GHG RESULTS N2O COMB =0.07 vs 0.11 FEL, CH4 COMB = 0.01 vs 0.05 STD. Expected Composite Certification Levels including Rounded Results, Diesel Adjustment Factor, and Additive DF: CO-COMP: 0 vs. 22 STD; NMOG+NOX-COMP: 0.091 vs. 0.800 STD; PM-COMP: 0.001 vs. 0.010 STD. Formaldehyde (HCHO) Certification Level from Ford CVS75 Test VFMX10093513 including Rounded Results, Diesel Adjustment Factor, and Additive DF: HCHO: 0.003 vs. 0.006 STD.		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
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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	330 - F250 PICKUP 4WD DIESEL	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	315 - F250 PICKUP 2WD DIESEL	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	330 - F250 PICKUP 4WD DIESEL	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	315 - F250 PICKUP 2WD DIESEL	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes

Engine Description

Hybrid Type	--	Hybrid Description	--
Engine Type	4-Stroke Compression Ignition	Mfr Engine Description	4-Stroke Compression Ignition
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	6.7L V8
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	10W-30/CK-4
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	Oxidation catalyst	Platinum + Palladium	Ceramic	Monolith
2	Selective Catalytic Reduction	Platinum	Ceramic	Monolith
3	Other	Platinum + Palladium	Ceramic	Monolith
4	Diesel Particulate Filter	Platinum + Palladium	Metal	Monolith

Mfr After Treatment Device (ATD) Comments	DOC, SCR, DEC, DPF
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--								
Engine Configuration Number 1											
Engine Displacement (liters)	6.7	Engine Rated Horsepower	500								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1								
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Liquid								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	No										
Variable Valve Timing System Description	--										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	0	Number of Air/Fuel Sensors	3								
Air/Fuel Sensor # 1 Type	Nitrogen oxide	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Nitrogen oxide	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Nitrogen oxide	Air/Fuel Sensor # 3 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes								
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	--										
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
Diesel	VFMX91006754	VFMX91006752	VFMX10093516	--	VFMX91006755	--	11.7	--	16.4	--	
SFTP LEV-III Official Test Numbers											
Test Group Fuel	FTP	US06	SC03								
Diesel	VFMX91006754	VFMX91006752	VFMX10093516								

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--																														
Emission Data Vehicle Information																																	
Vehicle ID / Configuration	VFH1-6.7-J-294 / 0	Manufacturer Vehicle Configuration Number	0																														
Original Test Group Name	VFMXD06.761B	Original Evaporative/Refueling Family	--																														
Original Test Vehicle Model Year	2027																																
Vehicle Model																																	
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F-250 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>Diesel</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Diesel																										
Drive Source and Fuel#	Drive Source	Fuel																															
1	Combustion Engine	Diesel																															
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	VTFHY3NA00	Rated Horsepower	500																														
Displacement (liters)	6.7																																
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'																															
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single																														
Charge Air Cooler Type	Liquid	Drive Mode While Testing	2-Wheel Drive, Rear																														
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)																														
Curb Weight (lbs)	7798	Equivalent Test Weight (pounds)	9500																														
GVWR (lbs)	10000	N/V Ratio	22.2																														
Axle Ratio	3.31																																
Transmission Type	Semi-Automatic	# of Transmission Gears	10																														
Transmission Lockup	Yes	Creep Gear	No																														
Dynamometer Coefficients:																																	
	<table border="1"> <thead> <tr> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>Coefficient Category</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> </thead> <tbody> <tr> <td>City/Highway/Evap</td> <td>85.41</td> <td>0.2338</td> <td>0.05956</td> <td>30.66</td> <td>0.2235</td> <td>0.05622</td> <td>32.8</td> </tr> <tr> <td>US06</td> <td>85.41</td> <td>0.2338</td> <td>0.05956</td> <td>30.66</td> <td>0.2235</td> <td>0.05622</td> <td>N/A</td> </tr> </tbody> </table>			Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	City/Highway/Evap	85.41	0.2338	0.05956	30.66	0.2235	0.05622	32.8	US06	85.41	0.2338	0.05956	30.66	0.2235	0.05622	N/A
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Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	--		

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
Test #	VFMX91006754	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	04/14/2026	Fuel	Diesel
Fuel Batch ID	44799	Fuel Calibration Number	1
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4346	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	U
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	745.8554077	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.3832184	--	
FE BAG 1 (Bag 1 Fuel Economy)	13.6278162	--	
CH4 BAG 1 (Bag 1 Methane)	0.0227843	--	
HC-NM BAG 1 (Bag 1 Non-methane Hydrocarbon)	0.0527508	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0756104	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	687.8909912	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	
FE BAG 2 (Bag 2 Fuel Economy)	14.7910652	--	
CH4 BAG 2 (Bag 2 Methane)	0.0229695	--	
HC-NM BAG 2 (Bag 2 Non-methane Hydrocarbon)	0.002853	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.0258983	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	632.5216064	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0	--	
FE BAG 3 (Bag 3 Fuel Economy)	16.0872707	--	
CH4 BAG 3 (Bag 3 Methane)	0.0048423	--	
HC-NM BAG 3 (Bag 3 Non-methane Hydrocarbon)	0.0012258	--	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0.0060841	--	
METHANE (CH4 - Methane)	0.0179497	--	
CO (Carbon Monoxide)	0.0795088	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4029925	--	
DT-EER (Drive Trace Energy Economy Rating)	0.0164085	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6989453	--	
MFR FE (Manufacturer Fuel Economy)	14.8569136	--	
NOX (Nitrogen Oxide)	0.0535565	--	
N2O (Nitrous Oxide)	0.0651687	--	
HC-NM (Non-methane Hydrocarbon)	0.0127584	--	
PM (Particulate Matter)	0.0000184	--	
HC-TOTAL (Total Hydrocarbon)	0.0307673	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	9999.9999999	685	

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
	Test Result Name	Unrounded Test Result	Verify Calculated CO2
	Carbon dioxide	684.701416	--
Manufacturer Test Comments Modified Report: LODTestnumber 20260700006 had an as-yet unidentified problem parsing results for HC-Total and HC-NM. This report has values hand-entered by K. Clark of TSB for those values, having been provided by M. Prindle of VTB. No other values where changed.			

Certification Summary Information Report

Test Group		VFMXD06.761B			Evaporative/Refueling Family				--			
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	CO	0.08	--	--	0.0001 UP	0.09	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	CO-COMP	0.1	--	--	0 UP	--	--	0	22	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	CO2	685	--	--	0 UP	0	--	685	--	--
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	METHANE	0.0179	--	--	0.0003 UP	0.0031	--	0.021	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	N2O	0.0652	--	--	0.0005 UP	0.0117	--	0.077	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NMOG	0.0128	--	1	0.0003 UP	0.0088	--	0.022	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NMOG+NOX	0.0664	--	--	0 UP	--	--	0.1	0.200	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NMOG+NOX-COMP	0.0777	--	--	0 UP	--	--	0.078	0.800	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NOX	0.0536	--	--	0.0099 UP	0.0145	--	0.078	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	PM	0	--	--	0.0003 UP	0.0004	--	0.001	0.008	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	PM-COMP	0.0005	--	--	0 UP	--	--	0	0.010	Pass
CA	150,000 miles	California LEV-III ULEV200	CO	0.08	--	--	0.0001 UP	0.09	--	0.2	4.2	Pass
CA	150,000 miles	California LEV-III ULEV200	CO-COMP	0.1	--	--	0 UP	--	--	0	22	Pass
CA	150,000 miles	California LEV-III ULEV200	CO2	685	--	--	0 UP	0	--	685	--	--
CA	150,000 miles	California LEV-III ULEV200	METHANE	0.0179	--	--	0.0003 UP	0.0031	--	0.021	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	N2O	0.0652	--	--	0.0005 UP	0.0117	--	0.077	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	NMOG	0.0128	--	1	0.0003 UP	0.0088	--	0.022	999.999	Pass

Certification Summary Information Report

Test Group		VFMXD06.761B			Evaporative/Refueling Family					--		
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 ULEV200	NMOG+NOX	0.0664	--	--	0 UP	--	--	0.1	0.200	Pass
CA	150,000 miles	California LEV-III ULEV200	NMOG+NOX-COMP	0.0777	--	--	0 UP	--	--	0.078	0.800	Pass
CA	150,000 miles	California LEV-III ULEV200	NOX	0.0536	--	--	0.0099 UP	0.0145	--	0.078	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	PM	0	--	--	0.0003 UP	0.0004	--	0.001	0.008	Pass
CA	150,000 miles	California LEV-III ULEV200	PM-COMP	0.0005	--	--	0 UP	--	--	0	0.010	Pass

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

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
Test #	VFMX91006755	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	04/23/2026	Fuel	Diesel
Fuel Batch ID	44799	Fuel Calibration Number	1
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4459	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	U
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
HC-NM BAG 1 (Bag 1 Non-methane Hydrocarbon)	0	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0000832	--	
METHANE (CH4 - Methane)	0.0014835	--	
CO (Carbon Monoxide)	0	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.678733	--	
DT-EER (Drive Trace Energy Economy Rating)	0.1770325	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.9493209	--	
MFR FE (Manufacturer Fuel Economy)	23.6808929	--	
NOX (Nitrogen Oxide)	0.0089601	--	
N2O (Nitrous Oxide)	0.0436662	--	
HC-NM (Non-methane Hydrocarbon)	0	--	
PM (Particulate Matter)	0.0000757	--	
HC-TOTAL (Total Hydrocarbon)	0.0000832	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	9999.9999999	430	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	429.7071838	--	

Certification Summary Information Report

Test Group		VFMXD06.761B				Evaporative/Refueling Family				--		
Manufacturer Test Comments		Modified Report: LODTestnumber 20260700011 had an as-yet unidentified problem parsing results for HC-Total and HC-NM. This report has values hand-entered by K. Clark of TSB for those values, having been provided by M. Prindle of VTB. No other values where changed.										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	METHANE	0.0015	--	--	0.0013 UP	0.0031	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	N2O	0.0437	--	--	0.0001 UP	0.0117	--	0.056	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NMOG	0	--	1	0 UP	0.0088	--	0.009	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NMOG+NOX	0.009	--	--	0 UP	--	--	0.044	0.200	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NOX	0.009	--	--	0.0117 UP	0.0145	--	0.035	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	METHANE	0.0015	--	--	0.0013 UP	0.0031	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	N2O	0.0437	--	--	0.0001 UP	0.0117	--	0.056	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	NMOG	0	--	1	0 UP	0.0088	--	0.009	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	NMOG+NOX	0.009	--	--	0 UP	--	--	0.044	0.200	Pass
CA	150,000 miles	California LEV-III ULEV200	NOX	0.009	--	--	0.0117 UP	0.0145	--	0.035	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
Test #	VFMX91006752	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur
Test Date	04/16/2026	Fuel	Diesel
Fuel Batch ID	44799	Fuel Calibration Number	1
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4435	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	U
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--																																																																				
	<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>1077.1384277</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>9.4470215</td><td>--</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.0003487</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.003194</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>593.7125244</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>17.1392593</td><td>--</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.0011529</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0000215</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0009742</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-4.0030069</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.0265157</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-6.8371434</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>14.5132675</td><td>--</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0661975</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.1149364</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0007264</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0007264</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0001909</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0016954</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)	1077.1384277	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0	--	FE BAG 1 (Bag 1 Fuel Economy)	9.4470215	--	CH4 BAG 1 (Bag 1 Methane)	0.0003487	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.003194	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	593.7125244	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	FE BAG 2 (Bag 2 Fuel Economy)	17.1392593	--	CH4 BAG 2 (Bag 2 Methane)	0.0011529	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0000215	--	METHANE (CH4 - Methane)	0.0009742	--	CO (Carbon Monoxide)	0	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-4.0030069	--	DT-EER (Drive Trace Energy Economy Rating)	-1.0265157	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-6.8371434	--	MFR FE (Manufacturer Fuel Economy)	14.5132675	--	NOX (Nitrogen Oxide)	0.0661975	--	N2O (Nitrous Oxide)	0.1149364	--	HC-NM (Non-methane Hydrocarbon)	0.0007264	--	NMOG (Non-methane organic gases)	0.0007264	--	PM (Particulate Matter)	0.0001909	--	HC-TOTAL (Total Hydrocarbon)	0.0016954	--	
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Manufacturer Test Comments	None																																																																						

Certification Summary Information Report

Test Group		VFMXD06.761B			Evaporative/Refueling Family					--		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	CO	0	--	--	0.0019 UP	0.09	--	0.092	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NMOG	0.0007	--	1	0.0007 UP	0.0088	--	0.01	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NOX	0.0662	--	--	0.0182 UP	0.0145	--	0.099	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	PM	0.0002	--	--	0.0007 UP	0.0004	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	CO	0	--	--	0.0019 UP	0.09	--	0.092	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	NMOG	0.0007	--	1	0.0007 UP	0.0088	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	NOX	0.0662	--	--	0.0182 UP	0.0145	--	0.099	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	PM	0.0002	--	--	0.0007 UP	0.0004	--	0.001	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--																																				
Test #	VFMX10093516	Test Procedure	95 - SC03																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur																																				
Test Date	01/13/2026	Fuel	Diesel																																				
Fuel Batch ID	DIES_7	Fuel Calibration Number	92																																				
Vehicle Class	HDV1 (Federal HD chassis Class 2b GVW 8501-10000), MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	APTL																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	3784	Odometer Units	M																																				
4WD Test Dyno	No	Diesel Adjustment Factor Usage	U																																				
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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Certification Summary Information Report

Test Group		VFMXD06.761B				Evaporative/Refueling Family				--		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	CO	0.0269	--	--	0.0001 UP	0.09	--	0.117	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NMOG	0.0067	--	1	0.0003 UP	0.0088	--	0.016	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	NOX	0.0268	--	--	0.0099 UP	0.0145	--	0.051	999.999	Pass
Fed	150,000 miles	Federal Tier 3 HD Class 2b Bin 200	PM	0	--	--	0.0003 UP	0.0004	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	CO	0.0269	--	--	0.0001 UP	0.09	--	0.117	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	NMOG	0.0067	--	1	0.0003 UP	0.0088	--	0.016	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	NOX	0.0268	--	--	0.0099 UP	0.0145	--	0.051	999.999	Pass
CA	150,000 miles	California LEV-III ULEV200	PM	0	--	--	0.0003 UP	0.0004	--	0.001	999.999	Pass

Certification Summary Information Report

Test Group	VFMXD06.761B	Evaporative/Refueling Family	--
Fuel Properties			
Fuel Batch ID	DIES_7	Fuel Calibration Number	92
Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur	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	0.849
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18320
Fuel Net Heat of Combustion (E10) (MJ/kg)	42.612	Fuel Carbon Mass Fraction (E10)	0.871
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.871	Weight Fraction CO2	--
Fuel Batch ID	44799	Fuel Calibration Number	1
Test Fuel Type	19 - Federal Cert Diesel 7-15 PPM Sulfur	Fuel Batch Calibration Date	10/25/2024
Fuel Batch Calibration Effective Date	10/25/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.858
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18343
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.868	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFMXD06.761B			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			Standard Level			Federal Tier 3 HD Class 2b Bin 200	
Fuel		Diesel			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	--	--	--	0.0001	0	--	0.09	999.999
150,000 miles	NMOG	--	--	1	0.0003	0	--	0.0088	999.999
150,000 miles	NOX	--	--	--	0.0099	0	--	0.0145	999.999
150,000 miles	PM	--	--	--	0.0003	0	--	0.0004	999.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			Standard Level			Federal Tier 3 HD Class 2b Bin 200	
Fuel		Diesel			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0001	0	--	0.09	4.2
150,000 miles	CO-COMP	--	--	--	0	0	--	--	22
150,000 miles	CO2	--	--	--	0	0	--	0	999.999
150,000 miles	HCHO	--	--	--	0	0	--	0.0017	0.006
150,000 miles	METHANE	--	--	--	0.0003	0	--	0.0031	999.999
150,000 miles	METHANE-COMB	--	--	--	0	0	--	--	0.05
150,000 miles	N2O	--	--	--	0.0005	0	--	0.0117	999.999
150,000 miles	N2O-COMB	--	--	--	0	0	--	--	0.11
150,000 miles	NMOG	--	--	1	0.0003	0	--	0.0088	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	--	0.200
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	--	--	0.800
150,000 miles	NOX	--	--	--	0.0099	0	--	0.0145	999.999
150,000 miles	PM	--	--	--	0.0003	0	--	0.0004	0.008
150,000 miles	PM-COMP	--	--	--	0	0	--	--	0.010

Certification Summary Information Report

Test Group		VFMXD06.761B			Evaporative/Refueling Family			--	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III ULEV200	
Fuel		Diesel			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0001	0	--	0.09	4.2
150,000 miles	CO-COMP	--	--	--	0	0	--	--	22
150,000 miles	CO2	--	--	--	0	0	--	0	999.999
150,000 miles	HCHO	--	--	--	0	0	--	0.0017	0.006
150,000 miles	METHANE	--	--	--	0.0003	0	--	0.0031	999.999
150,000 miles	METHANE-COMB	--	--	--	0	0	--	--	0.05
150,000 miles	N2O	--	--	--	0.0005	0	--	0.0117	999.999
150,000 miles	N2O-COMB	--	--	--	0	0	--	--	0.11
150,000 miles	NMOG	--	--	1	0.0003	0	--	0.0088	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	--	0.200
150,000 miles	NMOG+NOX-COMP	--	--	--	0	0	--	--	0.800
150,000 miles	NOX	--	--	--	0.0099	0	--	0.0145	999.999
150,000 miles	PM	--	--	--	0.0003	0	--	0.0004	0.008
150,000 miles	PM-COMP	--	--	--	0	0	--	--	0.010

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			Standard Level			Federal Tier 3 HD Class 2b Bin 200	
Fuel		Diesel			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	METHANE	--	--	--	0.0013	0	--	0.0031	999.999
150,000 miles	N2O	--	--	--	0.0001	0	--	0.0117	999.999
150,000 miles	NMOG	--	--	1	0	0	--	0.0088	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	--	0.200
150,000 miles	NOX	--	--	--	0.0117	0	--	0.0145	999.999

Certification Summary Information Report

Test Group		VFMXD06.761B			Evaporative/Refueling Family			--	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III ULEV200	
Fuel		Diesel			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	METHANE	--	--	--	0.0013	0	--	0.0031	999.999
150,000 miles	N2O	--	--	--	0.0001	0	--	0.0117	999.999
150,000 miles	NMOG	--	--	1	0	0	--	0.0088	999.999
150,000 miles	NMOG+NOX	--	--	--	0	0	1	--	0.200
150,000 miles	NOX	--	--	--	0.0117	0	--	0.0145	999.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		HDV1 (Federal HD chassis Class 2b GVW 8501-10000)			Standard Level			Federal Tier 3 HD Class 2b Bin 200	
Fuel		Diesel			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0019	0	--	0.09	999.999
150,000 miles	NMOG	--	--	1	0.0007	0	--	0.0088	999.999
150,000 miles	NOX	--	--	--	0.0182	0	--	0.0145	999.999
150,000 miles	PM	--	--	--	0.0007	0	--	0.0004	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III ULEV200	
Fuel		Diesel			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	0.0019	0	--	0.09	999.999
150,000 miles	NMOG	--	--	1	0.0007	0	--	0.0088	999.999
150,000 miles	NOX	--	--	--	0.0182	0	--	0.0145	999.999
150,000 miles	PM	--	--	--	0.0007	0	--	0.0004	999.999

Certification Summary Information Report

Test Group		VFMXD06.761B			Evaporative/Refueling Family			--	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		MDV6 (Cal. LEV 2/3/4 MDV GVW 8501-10000)			Standard Level			California LEV-III ULEV200	
Fuel		Diesel			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	--	--	--	0.0001	0	--	0.09	999.999
150,000 miles	NMOG	--	--	1	0.0003	0	--	0.0088	999.999
150,000 miles	NOX	--	--	--	0.0099	0	--	0.0145	999.999
150,000 miles	PM	--	--	--	0.0003	0	--	0.0004	999.999

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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	

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

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

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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	