

Certification Summary Information Report

Manufacturer	McLaren Automotive Limited	Manufacturer Code	MLN
Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Certificate Number	VMLNV04.0M18-004	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	06/09/2026 12:57:45 PM
Model Year	2027		

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Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition direct & ported injection	No

Drive Source #2: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
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	VMLNHHGVN006	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	07/24/2026	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	VMLNV04.0M18
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	Full details of OBD approval can be seen in OBD letter E-26-127.		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	04/16/2026 04:00:12 AM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	Aluminium				
Fill Pipe Seal Type	Mechanical seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	N/A				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	N/A				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	130	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	0				
Mfr Evaporative/Refueling Family Comments	Vehicle is fitted with a single carbon canister with two chambers. Total canister volume of 2300 ml, with a rated EPA capacity of 130g.						
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	Bleed test performed with fuel system only.						
CARB Fuel Only (Rig) Test Indicator	Yes	Applicability of CARB Fuel Only (Rig) Test	50 State				
CARB Fuel Only (Rig) Test Comments	Bench leak test according to Section VI of the specifications for fill pipes and openings of 2015 and subsequent model motor vehicles fuel tanks, in section 2235, Title 13, California code of regulations. On-board refuelling vapor recovery (ORVR) test procedure according to California Evaporative Emission and test procedures for 2001 and subsequent model years motor vehicles, section 1978(b), Title 13, California code of regulations.						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VMLNR0130M18-L18	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
McLaren Automotive Limited	2 - McLaren	180 - W1 Coupe	Federal	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	Yes
McLaren Automotive Limited	2 - McLaren	180 - W1 Coupe	California + CAA Section 177 states	2-Wheel Drive, Rear	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	Yes

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18		
Engine Description					
Hybrid Type	IC Engine/Electric Motor	Hybrid Description	--		
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--		
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--		
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	0W40		
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	Metal	Other
2		Other	Palladium + Rhodium	Metal	Monolith
3		Three-way catalyst	Palladium + Rhodium	Metal	Other
4		Other	Palladium + Rhodium	Metal	Monolith
Mfr After Treatment Device (ATD) Comments		1 starter and 1 secondary catalyst per bank, total 4. Secondary catalyst: Three way catalyst composed of: GPF specific Substrate + TWC PGM washcoat + GPF coating for EFC (Enhanced filtration efficiency)			
Direct Ozone Reduction (DOR) Device		Not Equipped			
Mfr Emission Control Device Comments		--			

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18								
Engine Configuration Number 1											
Engine Displacement (liters)	4.0	Engine Rated Horsepower	916								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2								
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Liquid								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	Variable Inlet Valve Timing by camshaft rotation offset.										
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 air fuel	Air/Fuel Sensor # 1 Description	WR-HO2S								
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated air fuel	Air/Fuel Sensor # 3 Description	WR-HO2S								
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No								
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	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
Electricity		VMLN10093846	VMLN10093847	VMLN10093845	VMLN10093838	VMLN10093844	--	--	--	--	--
Gasoline		VMLN10093846	VMLN10093847	VMLN10093845	VMLN10093838	VMLN10093844	11.8	11.5	18.6	16.5	--
SFTP LEV-III Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03							
Gasoline		VMLN10093846	VMLN10093847	VMLN10093845							
Electricity		VMLN10093846	VMLN10093847	VMLN10093845							

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	625	Battery Energy Capacity	2.4
Battery Specific Energy	28.3	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Not applicable		
Regenerative Braking Source	--	Driver Controlled Regenerative Braking	--
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	PMSM	Rated Motor/Generator Power	255
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	Drive Motor: PMSM Permanent magnet Synchronous machine.		

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18									
Emission Data Vehicle Information												
Vehicle ID / Configuration	SBM18ADA5SW990009 / 0	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	VMLNV04.0M18	Original Evaporative/Refueling Family	VMLNR0130M18									
Original Test Vehicle Model Year	2027											
Vehicle Model												
Represented Test Vehicle Make	McLaren	Represented Test Vehicle Model	W1									
Leak Family Details												
Leak Family Identifier	--	Leak Family Name	--									
Drive Sources and Fuel System Details												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	2	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel										
1	Combustion Engine	Gasoline										
2	Electric Motor	Electricity										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	No											
Odometer Correction -- Initial	0	Odometer Correction Factor	1									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Miles											
Engine Code	40JBAT	Rated Horsepower	916									
Displacement (liters)	3.988											
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'										
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel									
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)	3570	Equivalent Test Weight (pounds)	3875									
GVWR (lbs)	4055	N/V Ratio	38.5									
Axle Ratio	4.25											
Transmission Type	Automatic	# of Transmission Gears	8									
Transmission Lockup	No	Creeper Gear	No									

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093838	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	03/11/2026	Fuel	Gasoline
Fuel Batch ID	79467	Fuel Calibration Number	7328
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4622	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
Test Results			

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.6	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	774.413	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	3.836	--	
FE BAG 1 (Bag 1 Fuel Economy)	11.18	11.18	
CH4 BAG 1 (Bag 1 Methane)	0.00054	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.378004	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-96.3415	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.8	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	711.248	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.096	--	
FE BAG 2 (Bag 2 Fuel Economy)	12.28	12.28	
CH4 BAG 2 (Bag 2 Methane)	0	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	31.3393	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.6	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	569.072	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.138	--	
FE BAG 3 (Bag 3 Fuel Economy)	15.35	15.35	
CH4 BAG 3 (Bag 3 Methane)	0.000006	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-54.4456	--	
METHANE (CH4 - Methane)	0.013106	--	
CO (Carbon Monoxide)	0.884469	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4	--	
DT-EER (Drive Trace Energy Economy Rating)	0.14	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.02	--	
MFR FE (Manufacturer Fuel Economy)	12.72	12.72	
NOX (Nitrogen Oxide)	0.014932	--	
HC-NM (Non-methane Hydrocarbon)	0.071438	--	
NMOG (Non-methane organic gases)	0.078545	--	

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Test Group	VMLNV04.0M18				Evaporative/Refueling Family				VMLNR0130M18			
	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)			0.08637		--						
	HC-TOTAL (Total Hydrocarbon)			0.083528		--						
	WATT-HRS (Watt Hours)			-119.4478		--						
Test Result Name			Unrounded Test Result				Verify Calculated CO2					
Carbon dioxide			685.227				--					
Manufacturer Test Comments			FE in miles per gallon. All emissions results in grams per mile. Config #0: Sport Powertrain Mode									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.88	--	--	--	0.38	--	1.3	10.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	HC-NM	0.07	--	--	--	0.0149	--	0.1	0.3	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.88	--	--	--	0.38	--	1.3	10.0	Pass

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093846	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	02/10/2026	Fuel	Gasoline
Fuel Batch ID	79467	Fuel Calibration Number	7328
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3972	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
Test Results			

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.901	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	7.432	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	634.846	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.533	--	
FE BAG 1 (Bag 1 Fuel Economy)	13.74	13.74	
CH4 BAG 1 (Bag 1 Methane)	0.009	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.039056	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.044	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	16.16	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	7.469	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	571.135	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.189	--	
FE BAG 2 (Bag 2 Fuel Economy)	15.29	15.29	
CH4 BAG 2 (Bag 2 Methane)	0.011	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.031425	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.038	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	17.03	--	
METHANE (CH4 - Methane)	0.0103	--	
CO (Carbon Monoxide)	0.3369	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.71	--	
DT-EER (Drive Trace Energy Economy Rating)	0.41	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.39	--	
HCHO (Formaldehyde)	0.001511	--	
MFR FE (Manufacturer Fuel Economy)	14.58	14.58	
NOX (Nitrogen Oxide)	0.0111	--	
N2O (Nitrous Oxide)	0.0032	--	
HC-NM (Non-methane Hydrocarbon)	0.316	--	
NMOG (Non-methane organic gases)	0.034706	--	
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.3271	--	
HC-TOTAL (Total Hydrocarbon)	0.0409	--	
WATT-HRS (Watt Hours)	33.19	--	

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Test Group		VMLNV04.0M18			Evaporative/Refueling Family				VMLNR0130M18			
		Test Result Name		Unrounded Test Result			Verify Calculated CREE/OPT-CREE					
		Carbon-Related Exhaust Emissions		599.153			600					
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		598.531			--					
Manufacturer Test Comments		FE in miles per gallon. All emissions results in grams per mile. Config #0: Sport Powertrain Mode. 2x UDDS.										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.34	--	--	--	0.38	--	0.7	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CO-COMP	0.86	--	--	--	0.38	--	0.9	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	600	--	--	--	0	--	600	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	HCHO	0.0015	--	--	--	0.0005	--	0.002	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.0103	--	--	--	0.0069	--	0.017	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	N2O	0.0032	--	--	--	0.0028	--	0.006	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0347	--	1.1	--	0.0149	--	0.05	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0458	--	--	--	--	--	0.072	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX-COMP	0.0675	--	--	--	0	--	0.068	0.090	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0111	--	--	--	0.0115	--	0.023	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.34	--	--	--	0.38	--	0.7	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	HCHO	0.0015	--	--	--	0.0005	--	0.002	0.004	Pass
CA	150,000 miles	California LEV-IV ULEV125	METHANE	0.0103	--	--	--	0.0069	--	0.017	0.030	Pass
CA	150,000 miles	California LEV-IV ULEV125	N2O	0.0032	--	--	--	0.0028	--	0.006	0.010	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.03471	--	1.1	--	0.0149	--	0.0496	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.04581	--	--	--	--	--	0.072	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0111	--	--	--	0.0115	--	0.0226	999.9999	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093848	Test Procedure	51 - CA fuel 50 Deg(F) exhaust test
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	03/13/2026	Fuel	Gasoline
Fuel Batch ID	79467	Fuel Calibration Number	7328
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4747	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
Test Results			

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Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.1	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.6	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	677.009	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.861	--	
FE BAG 1 (Bag 1 Fuel Economy)	12.87	12.87	
CH4 BAG 1 (Bag 1 Methane)	0.021	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.12751	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-11.2693	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.9	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	668.922	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.045	--	
FE BAG 2 (Bag 2 Fuel Economy)	13.06	13.06	
CH4 BAG 2 (Bag 2 Methane)	0	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	14.802	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.6	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	564.652	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.232	--	
FE BAG 3 (Bag 3 Fuel Economy)	15.46	15.46	
CH4 BAG 3 (Bag 3 Methane)	0.021	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.03962	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-70.1293	--	
METHANE (CH4 - Methane)	0.0103	--	
CO (Carbon Monoxide)	0.265364	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-41	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.06	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-16	--	
HCHO (Formaldehyde)	0.000888	--	
MFR FE (Manufacturer Fuel Economy)	13.6	13.6	
NOX (Nitrogen Oxide)	0.014096	--	
HC-NM (Non-methane Hydrocarbon)	0.033417	--	

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Test Group	VMLNV04.0M18				Evaporative/Refueling Family				VMLNR0130M18			
	NMOG (Non-methane organic gases)		0.036742		--							
	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)		0.047512		--							
	HC-TOTAL (Total Hydrocarbon)		0.043114		--							
	WATT-HRS (Watt Hours)		-66.5966		--							
Test Result Name			Unrounded Test Result			Verify Calculated CO2						
Carbon dioxide			641.95			--						
Manufacturer Test Comments			FE in miles per gallon. All emissions results in grams per mile. Config #0: Sport Powertrain Mode.									
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-IV ULEV125	CO	0.27	--	--	--	0	--	0.3	2.1	Pass
CA	4,000 miles	California LEV-IV ULEV125	HCHO	0.0009	--	--	--	0	--	0.001	0.016	Pass
CA	4,000 miles	California LEV-IV ULEV125	NMOG	0.03674	--	1.1	--	0	--	0.0367	999.9999	Pass
CA	4,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.05084	--	--	--	--	--	0.051	0.250	Pass
CA	4,000 miles	California LEV-IV ULEV125	NOX	0.0141	--	--	--	0	--	0.0141	999.9999	Pass

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093844	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	02/10/2026	Fuel	Gasoline
Fuel Batch ID	79467	Fuel Calibration Number	7328
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4009	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	10.215	--
METHANE (CH4 - Methane)	0.0005	--
CO (Carbon Monoxide)	0.068	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.59	--
DT-EER (Drive Trace Energy Economy Rating)	-0.11	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.67	--
MFR FE (Manufacturer Fuel Economy)	23.7	23.7
NOX (Nitrogen Oxide)	0.0003	--
HC-NM (Non-methane Hydrocarbon)	0.0001	--
NMOG (Non-methane organic gases)	0.000103	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0004	--
HC-TOTAL (Total Hydrocarbon)	0.0005	--
WATT-HRS (Watt Hours)	2.36	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	368.208	368

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	368.131	--

Manufacturer Test Comments

FE in miles per gallon. All emissions results in grams per mile. Config #0: Sport Powertrain Mode.

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family					VMLNR0130M18		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	368	--	--	--	0	--	368	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0001	--	1.1	--	0.0149	--	0.015	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0004	--	--	--	--	--	0.027	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0003	--	--	--	0.0115	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.0001	--	1.1	--	0.0149	--	0.015	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.0004	--	--	--	--	--	0.027	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0003	--	--	--	0.0115	--	0.0118	999.9999	Pass

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

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093847	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	02/10/2026	Fuel	Gasoline
Fuel Batch ID	79467	Fuel Calibration Number	7328
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4070	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	8	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.77	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	665.3	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.438	--	
FE BAG 1 (Bag 1 Fuel Economy)	13.1	13.1	
CH4 BAG 1 (Bag 1 Methane)	0.018	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.01545	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.03	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	5.01	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.23	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	420.2	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.12	--	
FE BAG 2 (Bag 2 Fuel Economy)	20.8	20.8	
CH4 BAG 2 (Bag 2 Methane)	0.006	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.00309	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.008	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-2.7	--	
METHANE (CH4 - Methane)	0.0085	--	
CO (Carbon Monoxide)	0.1901	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.13	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.65	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.38	--	
MFR FE (Manufacturer Fuel Economy)	18.4	18.4	
NOX (Nitrogen Oxide)	0.0037	--	
HC-NM (Non-methane Hydrocarbon)	0.0056	--	
NMOG (Non-methane organic gases)	0.005768	--	
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0093	--	
HC-TOTAL (Total Hydrocarbon)	0.0129	--	
WATT-HRS (Watt Hours)	2.31	--	

Certification Summary Information Report

Test Group		VMLNV04.0M18				Evaporative/Refueling Family				VMLNR0130M18		
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		474.373		--						
Manufacturer Test Comments		FE in miles per gallon. All emissions results in grams per mile. Config #0: Sport Powertrain Mode.										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.1901	--	--	--	0.38	--	0.5701	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.00577	--	1.1	--	0.0149	--	0.0207	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0037	--	--	--	0.0115	--	0.0152	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.19	--	--	--	0.38	--	0.6	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.00577	--	1.1	--	0.0149	--	0.0207	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.00947	--	--	--	--	--	0.036	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0037	--	--	--	0.0115	--	0.0152	999.9999	Pass

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093845	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	03/12/2026	Fuel	Gasoline
Fuel Batch ID	79467	Fuel Calibration Number	7328
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4723	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	3.564	--
METHANE (CH4 - Methane)	0.0228	--
CO (Carbon Monoxide)	0.831	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.46	--
DT-EER (Drive Trace Energy Economy Rating)	0.01	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.97	--
MFR FE (Manufacturer Fuel Economy)	11	11
NOX (Nitrogen Oxide)	0.0352	--
HC-NM (Non-methane Hydrocarbon)	0.0246	--
NMOG (Non-methane organic gases)	0.025338	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0598	--
HC-TOTAL (Total Hydrocarbon)	0.0462	--
WATT-HRS (Watt Hours)	-91.78	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	794.9	--

Manufacturer Test Comments

FE in miles per gallon. All emissions results in grams per mile. Config #0: Sport Powertrain Mode.

Certification Summary Information Report

Test Group		VMLNV04.0M18				Evaporative/Refueling Family				VMLNR0130M18		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.831	--	--	--	0.38	--	1.211	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.02534	--	1.1	--	0.0149	--	0.0402	999.9999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0352	--	--	--	0.0115	--	0.0467	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	CO	0.83	--	--	--	0.38	--	1.2	2.1	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG	0.02534	--	1.1	--	0.0149	--	0.0402	999.9999	Pass
CA	150,000 miles	California LEV-IV ULEV125	NMOG+NOX	0.06054	--	--	--	--	--	0.087	0.125	Pass
CA	150,000 miles	California LEV-IV ULEV125	NOX	0.0352	--	--	--	0.0115	--	0.0467	999.9999	Pass

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18									
Emission Data Vehicle Information												
Vehicle ID / Configuration	SBM18ADA5SW990009 / 1	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	VMLNV04.0M18	Original Evaporative/Refueling Family	VMLNR0130M18									
Original Test Vehicle Model Year	2027											
Vehicle Model												
Represented Test Vehicle Make	McLaren	Represented Test Vehicle Model	W1									
Leak Family Details												
Leak Family Identifier	--	Leak Family Name	--									
Drive Sources and Fuel System Details												
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	No											
Odometer Correction -- Initial	0	Odometer Correction Factor	1									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Miles											
Engine Code	40JBAT	Rated Horsepower	916									
Displacement (liters)	3.988											
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'										
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel									
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)	3570	Equivalent Test Weight (pounds)	3875									
GVWR (lbs)	4055	N/V Ratio	38.5									
Axle Ratio	4.25											
Transmission Type	Automatic	# of Transmission Gears	8									
Transmission Lockup	No	Creep Gear	No									

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family		VMLNR0130M18	
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	58.65	0.992	0.01807	43.1	0.482	0.02089	20.5	
Cold CO	64.52	1.091	0.01988	35.97	0.321	0.02402	N/A	
US06	58.65	0.992	0.01807	43.1	0.482	0.02089	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Config #1 - W1 - Comfort Powertrain Mode						

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093851	Test Procedure	35 - California fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	01/08/2026	Fuel	Gasoline
Fuel Batch ID	72834	Fuel Calibration Number	500
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3732	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.1	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.6	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	635.514	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.688	--	
FE BAG 1 (Bag 1 Fuel Economy)	13.75	13.75	
CH4 BAG 1 (Bag 1 Methane)	0.019	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.089992	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	40.015	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.9	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	642.228	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.087	--	
FE BAG 2 (Bag 2 Fuel Economy)	13.63	13.63	
CH4 BAG 2 (Bag 2 Methane)	0	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.001569	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-1.96	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.6	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	537.683	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.032	--	
FE BAG 3 (Bag 3 Fuel Economy)	16.28	16.28	
CH4 BAG 3 (Bag 3 Methane)	0.003	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.000735	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-61.789	--	
METHANE (CH4 - Methane)	0.004962	--	
CO (Carbon Monoxide)	0.196734	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.89	--	
DT-EER (Drive Trace Energy Economy Rating)	0.22	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.01	--	
MFR FE (Manufacturer Fuel Economy)	14.29	14.29	
NOX (Nitrogen Oxide)	0.008956	--	
HC-NM (Non-methane Hydrocarbon)	0.017964	--	
NMOG (Non-methane organic gases)	0.019709	--	

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family				VMLNR0130M18			
		HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)		0.02692		--						
		HC-TOTAL (Total Hydrocarbon)		0.022468		--						
		WATT-HRS (Watt Hours)		-23.734		--						
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		612.41		612						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		612.095		--						
Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #1: Comfort Powertrain Mode. FTP75 Evaporative ORVR.												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.2	--	--	--	0.38	--	0.6	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	612	--	--	--	0	--	612	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.005	--	--	--	0.0069	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0197	--	1.1	--	0.0149	--	0.035	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0287	--	--	--	--	--	0.055	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.009	--	--	--	0.0115	--	0.02	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV125	CO	0.2	--	--	--	0.38	--	0.6	2.1	Pass
CA	150,000 miles	California LEV-IV SULEV125	CREE	612	--	--	--	0	--	612	--	--
CA	150,000 miles	California LEV-IV SULEV125	METHANE	0.005	--	--	--	0.0069	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV125	NMOG	0.0197	--	1.1	--	0.0149	--	0.035	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV125	NMOG+NOX	0.0287	--	--	--	--	--	0.055	0.125	Pass
CA	150,000 miles	California LEV-IV SULEV125	NOX	0.009	--	--	--	0.0115	--	0.02	999.999	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093852	Test Procedure	35 - California fuel 3-day exhaust
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	12/05/2025	Fuel	Gasoline
Fuel Batch ID	72834	Fuel Calibration Number	500
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3630	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.1	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.6	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	706.732	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.619	--	
FE BAG 1 (Bag 1 Fuel Economy)	12.37	12.37	
CH4 BAG 1 (Bag 1 Methane)	0.016	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.081559	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-328.351	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.9	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	649.323	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.046	--	
FE BAG 2 (Bag 2 Fuel Economy)	13.48	13.48	
CH4 BAG 2 (Bag 2 Methane)	0	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.000558	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-3.512	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.6	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	556.252	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.051	--	
FE BAG 3 (Bag 3 Fuel Economy)	15.74	15.74	
CH4 BAG 3 (Bag 3 Methane)	0.004	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.000252	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-166.695	--	
METHANE (CH4 - Methane)	0.004571	--	
CO (Carbon Monoxide)	0.166021	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.86	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.34	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.94	--	
MFR FE (Manufacturer Fuel Economy)	13.77	13.77	
NOX (Nitrogen Oxide)	0.011586	--	
HC-NM (Non-methane Hydrocarbon)	0.015747	--	
NMOG (Non-methane organic gases)	0.017277	--	

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family				VMLNR0130M18			
		HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)		0.027333		--						
		HC-TOTAL (Total Hydrocarbon)		0.020133		--						
		WATT-HRS (Watt Hours)		-498.558		--						
		Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions		635.861		636						
		Test Result Name		Unrounded Test Result		Verify Calculated CO2						
		Carbon dioxide		635.645		--						
Manufacturer Test Comments FE in miles per gallon. All emissions results in grams per mile. Config #1: Comfort Powertrain Mode. FTP75 Evaporative 3DD.												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 125	CO	0.17	--	--	--	0.38	--	0.6	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	CREE	636	--	--	--	0	--	636	--	--
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.0046	--	--	--	0.0069	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.0173	--	1.1	--	0.0149	--	0.032	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0289	--	--	--	--	--	0.055	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.0116	--	--	--	0.0115	--	0.023	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV125	CO	0.17	--	--	--	0.38	--	0.6	2.1	Pass
CA	150,000 miles	California LEV-IV SULEV125	CREE	636	--	--	--	0	--	636	--	--
CA	150,000 miles	California LEV-IV SULEV125	METHANE	0.0046	--	--	--	0.0069	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-IV SULEV125	NMOG	0.0173	--	1.1	--	0.0149	--	0.032	999.999	Pass
CA	150,000 miles	California LEV-IV SULEV125	NMOG+NOX	0.0289	--	--	--	--	--	0.055	0.125	Pass
CA	150,000 miles	California LEV-IV SULEV125	NOX	0.0116	--	--	--	0.0115	--	0.023	999.999	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093855	Test Procedure	38 - CA fuel 3-day evap.
Exhaust Test # for this Evap Test	VMLN10093852	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	12/05/2025	Fuel	Gasoline
Fuel Batch ID	72834	Fuel Calibration Number	500
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3630	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.227	--

Manufacturer Test Comments

3-day diurnal emission result in grams.

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	0.23	0.0021	0.2	0.3	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.23	0.0021	0.2	0.3	Pass

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18						
Test #	VMLN10093854	Test Procedure	37 - California Fuel Running Loss						
Exhaust Test # for this Evap Test	VMLN10093852	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline						
Test Date	12/05/2025	Fuel	Gasoline						
Fuel Batch ID	72834	Fuel Calibration Number	500						
Vehicle Class	N/A	DF Type	EPA Assigned						
Verify Test Lab ID	Applus IDIADA Group								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	3630	Odometer Units	K						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes						
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-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.00032</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00032	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00032	--							
Manufacturer Test Comments									
Emission result in grams per mile. Config #1: Comfort Powertrain Mode. Part of Evaporative 3DD test process.									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.05	Pass	

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18						
Test #	VMLN10093857	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	VMLN10093851	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline						
Test Date	01/08/2026	Fuel	Gasoline						
Fuel Batch ID	72834	Fuel Calibration Number	500						
Vehicle Class	N/A	DF Type	EPA Assigned						
Verify Test Lab ID	Applus IDIADA Group								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	3732	Odometer Units	K						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes						
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-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.009</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.009	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.009	--							
Manufacturer Test Comments									
ORVR Refuelling emissions result in g/dispensed gal. Config #1: Comfort Powertrain Mode.									
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	0.01	0.006	0	0.2	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.01	0.006	0	0.2	Pass	

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Test #	VMLN10093859	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline
Test Date	06/04/2025	Fuel	Gasoline
Fuel Batch ID	72834	Fuel Calibration Number	500
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Applus IDIADA Group		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	0	Odometer Units	K
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0034	--

Manufacturer Test Comments

Rig test performed. Result in g.

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	0.003	0	0	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.003	0	0	0.02	Pass

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18						
Test #	VMLN10093858	Test Procedure	67 - Leak Test - Port Near Canister						
Exhaust Test # for this Evap Test	--	Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline						
Test Date	05/14/2025	Fuel	Gasoline						
Fuel Batch ID	72834	Fuel Calibration Number	500						
Vehicle Class	N/A	DF Type	EPA Assigned						
Verify Test Lab ID	Applus IDIADA Group								
E10 Evaporative Test Measurement Method	--								
Test Start Odometer Reading	0	Odometer Units	K						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--						
Test Results									
<table border="1"> <tr> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value</td> </tr> <tr> <td>LEAK-DIA (Effective Leak Diameter (inches))</td> <td>0</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	LEAK-DIA (Effective Leak Diameter (inches))	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
LEAK-DIA (Effective Leak Diameter (inches))	0	--							
Manufacturer Test Comments									
Rig test performed. Leak Check tested according to 40 CFR §1066.985. Result given = deff. No leaks detected.									
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	LEAK-DIA	0	0	0	0.02	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	LEAK-DIA	0	0	0	0.02	Pass	

Certification Summary Information Report

Test Group	VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
Fuel Properties			
Fuel Batch ID	79467	Fuel Calibration Number	7328
Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline	Fuel Batch Calibration Date	12/15/2025
Fuel Batch Calibration Effective Date	01/12/2026	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	0.752
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.424	Fuel Carbon Mass Fraction (E10)	0.828
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	72834	Fuel Calibration Number	500
Test Fuel Type	52 - CARB LEV4 E10 Premium Gasoline	Fuel Batch Calibration Date	03/10/2025
Fuel Batch Calibration Effective Date	03/13/2025	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	9.4	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.46	Fuel Carbon Mass Fraction (E10)	0.83
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family		VMLNR0130M18		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-III ULEV50		
Fuel		Gasoline			Test Procedure		California fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.16	1.7
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0002	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0026	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0011	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0062	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0047	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-IV ULEV125		
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	--	--	--	--	--	--	0.38	2.1
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family			VMLNR0130M18	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV125	
Fuel		Gasoline			Test Procedure			CA fuel 50 Deg(F) exhaust test	
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	--	--	--	--	--	--	0	2.1
4,000 miles	HCHO	--	--	--	--	--	--	0	0.016
4,000 miles	NMOG	--	--	1.1	--	--	--	0	999.9999
4,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.250
4,000 miles	NOX	--	--	--	--	--	--	0	999.9999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 50	
Fuel		Gasoline			Test Procedure			California fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.16	1.7
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0002	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0026	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0011	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0062	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0047	999.999

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family			VMLNR0130M18	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.38	2.1
150,000 miles	CO-COMP	--	--	--	--	--	--	0.38	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0069	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0028	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.090
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV SULEV125	
Fuel		Gasoline			Test Procedure			California fuel 3-day exhaust	
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	--	--	--	--	--	--	0.38	2.1
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0002	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0069	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0028	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.999

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family			VMLNR0130M18	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV125	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.38	2.1
150,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0069	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0028	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			California fuel 3-day exhaust	
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	--	--	--	--	--	--	0.38	2.1
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0005	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0.0069	0.030
150,000 miles	N2O	--	--	--	--	--	--	0.0028	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.999

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family			VMLNR0130M18	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
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	--	--	--	--	--	--	0.38	999.9999
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.38	10.0
150,000 miles	HC-NM	--	--	--	--	--	--	0.0149	0.3

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.38	999.9999
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Certification Summary Information Report

Test Group		VMLNV04.0M18			Evaporative/Refueling Family			VMLNR0130M18	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 125	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV125	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.38	9.6
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV125	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0149	999.9999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.125
150,000 miles	NOX	--	--	--	--	--	--	0.0115	999.9999

Certification Summary Information Report

Test Group	VMLNV04.0M18			Evaporative/Refueling Family			VMLNR0130M18		
Cert Region	California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class	LDV/Passenger Car			Standard Level			California LEV-IV ULEV125		
Fuel	Gasoline			Test Procedure			Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.38	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family		VMLNR0130M18		Cert Region		Federal	
Cert/In-Use Code		Cert		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	0		

Evaporative/Refueling Family		VMLNR0130M18		Cert Region		Federal	
Cert/In-Use Code		Cert		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-EQUIV	--	0.02	0		

Evaporative/Refueling Family			VMLNR0130M18		Cert Region		California + CAA Section 177 states		
Cert/In-Use Code			Cert		Standard Level		California LEV-IV Zero Evap (Option 2)		
Test Procedure			California Fuel Running Loss						
Fuel		Useful Life		Emission Name		Rounded Result		Std	Add DF
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.05	0

Evaporative/Refueling Family		VMLNR0130M18		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.3	0.0021		

Certification Summary Information Report

Test Group		VMLNV04.0M18		Evaporative/Refueling Family		VMLNR0130M18	
Evaporative/Refueling Family		VMLNR0130M18		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Spitback					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	SPITBACK	--	1.0	0		
Evaporative/Refueling Family		VMLNR0130M18		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV 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-EQUIV	--	0.02	0		
Evaporative/Refueling Family		VMLNR0130M18		Cert Region		Federal	
Cert/In-Use Code		Cert		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	--	0.2	0.006		
Evaporative/Refueling Family		VMLNR0130M18		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		California Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VMLNR0130M18		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV 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	HC-TOTAL-EQUIV	--	0.2	0.006		

Certification Summary Information Report

Test Group		VMLNV04.0M18		Evaporative/Refueling Family		VMLNR0130M18	
Evaporative/Refueling Family		VMLNR0130M18		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Leak Test - Port Near Canister					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0		
Evaporative/Refueling Family		VMLNR0130M18		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Leak Test - Port Near Canister					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0		
Evaporative/Refueling Family		VMLNR0130M18		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		CA fuel 3-day evap.					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.3	0.0021		

Certification Summary Information Report

Test Group		VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
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		VMLNV04.0M18	Evaporative/Refueling Family		VMLNR0130M18
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

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Test Group		VMLNV04.0M18	Evaporative/Refueling Family	VMLNR0130M18
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		VMLNV04.0M18	Evaporative/Refueling Family		VMLNR0130M18
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	