

Certification Summary Information Report

Manufacturer	Mercedes Benz	Manufacturer Code	MBX
Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Certificate Number	VMBXJ03.0HY1-020	CARB Executive Order #	--
Certificate Issue Date	07/17/2026	Certificate Revision Date	--
Certificate Effective Date	07/17/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	07/14/2026 03:43:28 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
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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 fuel 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	LDT4, 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	VMBXHHGNNBI2	Durability Group Equivalency Factor	0.7
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	Not Applicable	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VMBXJ03.0HY1
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	AMG GLC 53 4MATIC+ Models: 2 Deficiencies; GLS 450 4MATIC and GLE 450 4MATIC Models: 1 Deficiency		
Mfr Test Group Comments	Federal = Nationwide (50 states) / CA = CA + 177 States / TestGroup qualifies for Derived-5-Cycle Approach: City Litmus Threshold: 17.4 mpg, City FE 17.9 mpg - PASS; Highway Litmus Threshold: 22.0 mpg, Highway FE 23.4 mpg - PASS		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
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Evaporative/Refueling Family Information			
Evaporative Summary Information Type	New	Submission/Correction Date	03/18/2026 05:53:07 AM
Integrated ORVR?	Yes	Fuel(s)	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Plastic	Fuel Tank Material Description	HDPE
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	170	Number of Primary Canisters	1
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	4
Mfr Evaporative/Refueling Family Comments	--		
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 canister integrated in primary canister; cert result: 0.017 g/test; FMBX10048076		
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--
CARB Fuel Only (Rig) Test Comments	--		

Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VMBXR0170LNF-LNF	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
Mercedes Benz	1 - Mercedes-Benz	409 - GLE 450 4MATIC (coupe)	Federal	All Wheel Drive	Automatic	9	Yes
Mercedes Benz	1 - Mercedes-Benz	421 - GLS 450 4MATIC	California + CAA Section 177 states	All Wheel Drive	Automatic	9	Yes
Mercedes Benz	1 - Mercedes-Benz	408 - GLE 450 4MATIC	California + CAA Section 177 states	All Wheel Drive	Automatic	9	Yes
Mercedes Benz	1 - Mercedes-Benz	409 - GLE 450 4MATIC (coupe)	California + CAA Section 177 states	All Wheel Drive	Automatic	9	Yes
Mercedes Benz	1 - Mercedes-Benz	421 - GLS 450 4MATIC	Federal	All Wheel Drive	Automatic	9	Yes
Mercedes Benz	1 - Mercedes-Benz	408 - GLE 450 4MATIC	Federal	All Wheel Drive	Automatic	9	Yes

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF	
Engine Description				
Hybrid Type	IC Engine/Electric Motor	Hybrid Description	--	
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--	
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	--	
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	0W20 (229.71 / 229.72)	
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N	
After Treatment Device(s) (ATD)				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
3	Other	no coating	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
ATD #3 = GPF (Gasoline particulate filter)				
Direct Ozone Reduction (DOR) Device				
Not Equipped				
Mfr Emission Control Device Comments				
--				
Engine Configuration Number 1				
Engine Displacement (liters)	3.0	Engine Rated Horsepower	375	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Turbocharged+Supercharged	Number of Air Aspiration Devices	2	
Air Aspiration Device Configuration	Series	Charge Air Cooler Type	Liquid	
Air Aspiration Drive Method(s)	Mechanical, Electric			
Cylinder Deactivation	No			
Cylinder Deactivation Description	--			
Variable Valve Timing	Yes			
Variable Valve Timing System Description	Allows timing of the intake / exhaust valves to be changed while the engine is in operation			
Variable Valve Lift?	No			
Variable Valve Lift System Description	--			
Number of Knock Sensors	3	Number of Air/Fuel Sensors	2	
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--	
Mfr Air/Fuel Sensor Comments	--			
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	No	
EGR Type	Variable Valve Timing Control	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	GLS 450 4MATIC, GLE 450 4MATIC, GLE 450 4MATIC (coupe)			

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Engine Configuration Number 2			
Engine Displacement (liters)	3.0	Engine Rated Horsepower	443
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged+Supercharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Series	Charge Air Cooler Type	Liquid
Air Aspiration Drive Method(s)	Mechanical, Electric		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Allows timing of the intake / exhaust valves to be changed while the engine is in operation		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	3	Number of Air/Fuel Sensors	2
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	No
EGR Type	Variable Valve Timing Control	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	AMG GLC 53 4MATIC+, AMG GLC 53 4MATIC+ (coupe)		

Official Test Numbers

Test Group	Fuel					EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
		FTP	US06	SC03	Cold CO					
Gasoline	VMBX91006839	VMBX91006813	VMBX10093944	VMBX10094032	VMBX91006814	48.5	16.9	92.6	22.2	--
Electricity	VMBX91006839	VMBX91006813	VMBX10093944	VMBX10094032	VMBX91006814	--	--	--	--	--

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Gasoline	VMBX91006839	VMBX91006813	VMBX10093944
Electricity	VMBX91006839	VMBX91006813	VMBX10093944

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Gasoline	--	--

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Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
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	44	Battery Energy Capacity	19
Battery Specific Energy	59	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	PSM	Rated Motor/Generator Power	17
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	ISG Engine 48V Technologie Data for battery type BB300 as follows (AMG GLC 53 4MATIC+ (coupe), AMG GLC 53 4MATIC+): Battery Type: LI; Number of Battery Packs: 1; Total Voltage of Battery Pack (Volts): 48; Battery Energy Capacity (Ah): 17.5; Battery Specific Energy (Whr/kg): 57.2; Battery Charger Type: ON		

Certification Summary Information Report

Test Group	VMBXJ03.0HY1		Evaporative/Refueling Family	VMBXR0170LNF						
Emission Data Vehicle Information										
Vehicle ID / Configuration	V167E20DETC-Z2013 / 0		Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	LMBXT02.0U3A		Original Evaporative/Refueling Family	LMBXR0170LNF						
Original Test Vehicle Model Year	2020									
Vehicle Model										
Represented Test Vehicle Make	Mercedes-Benz		Represented Test Vehicle Model	GLE 350 4MATIC						
Leak Family Details										
Leak Family Identifier	--		Leak Family Name	--						
Drive Sources and Fuel System Details										
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </table>		Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel								
1	Combustion Engine	Gasoline								
Hybrid Indicator	No		Multiple Fuel Combustion	--						
Multiple Fuel Storage	--		Rechargeable Energy Storage System Indicator	No						
Fuel Cell Indicator	No		Rechargeable Energy Storage System, if 'Other'	--						
Rechargeable Energy Storage System	--									
Off-board charge Capable Indicator	No									
Odometer Correction -- Initial	341		Odometer Correction Factor	0.98						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor									
Odometer Correction Units	Miles									
Engine Code	M264-20DETC		Rated Horsepower	255						
Displacement (liters)	1.991									
Air Aspiration Method	Turbocharged		Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1		Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	N/A		Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped		Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4853		Equivalent Test Weight (pounds)	5250						
GVWR (lbs)	6217		N/V Ratio	26.4						
Axle Ratio	3.69									
Transmission Type	Automatic		# of Transmission Gears	9						
Transmission Lockup	Yes		Creep Gear	No						
Dynamometer Coefficients:										
	Target Coefficients			Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients						
City/Highway/Evap	61.59	0.3617	0.02613	19.3						
Emission Control Device Comments	--									

Certification Summary Information Report

Test Group	VMBXJ03.0HY1		Evaporative/Refueling Family	VMBXR0170LNF									
Manufacturer Test Vehicle Comments	325/35 R22												
Test #	LMBX10063090	Test Procedure	23 - 2-day evap										
Exhaust Test # for this Evap Test	LMBX10063088	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)										
Test Date	08/30/2019	Fuel	Gasoline										
Fuel Batch ID	D20R03	Fuel Calibration Number	1										
Vehicle Class	N/A	DF Type	Mfr. Determined										
Verify Test Lab ID	Mercedesstrasse 137												
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)												
Test Start Odometer Reading	5732	Odometer Units	M										
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--										
State of Charge Delta	No												
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No										
Test Results													
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.3055</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.3299</td> <td>--</td> </tr> </tbody> </table>					Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.3055	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3299	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)											
HC-TOTAL (Total Hydrocarbon)	0.3055	--											
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3299	--											
Manufacturer Test Comments													
MY2020 (C118) 2Day EVAP Test Result. Hot Soak: 0.0395 g HC-Total/0.0427 g HC-Total-EQUIV													
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail					
Fed	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.3299	0	0.33	0.45	Pass					
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.3299	0	0.33	0.45	Pass					

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Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	LMBX10063292	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	LMBX10063289	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	01/15/2020	Fuel	Gasoline
Fuel Batch ID	D20R06	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Mercedesstrasse 137		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	6008	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.3042	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3285	--

Manufacturer Test Comments

MY2020 (V167) 3Day EVAP Test Result. Hot Soak: 0.070 g HC-Total/0.0756 g HC-Total-EQUIV

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	0.3285	0	0.328	0.45	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.3285	0	0.328	0.45	Pass

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF						
Test #	LMBX10063089	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	LMBX10063087	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	08/28/2019	Fuel	Gasoline						
Fuel Batch ID	D20R03	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Mercedesstrasse 137								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	5715	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0.013</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	OMHCE (Organic material Hydrocarbon Equivalent)	0.013	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
OMHCE (Organic material Hydrocarbon Equivalent)	0.013	--							
Manufacturer Test Comments									
MY2020 (V167) ORVR Test Result (OMHCE result). Tier 3 E10 fuel									
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	OMHCE	0.013	0	0.01	0.2	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.013	0	0.01	0.2	Pass	

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF						
Test #	LMBX10063290	Test Procedure	32 - Federal Fuel Running Loss						
Exhaust Test # for this Evap Test	LMBX10063289	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	01/09/2020	Fuel	Gasoline						
Fuel Batch ID	D20R06	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Mercedesstrasse 137								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	5956	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.0000186</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0000186	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0000186	--							
Manufacturer Test Comments									
MY2020 (V167) Running Loss Test. Correction of test result from 0.0186 MILLIGRAMS THCe/mi into 0.0000186 GRAMS THCe/mi, Oct 24th 2024									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0	0	0	0.05	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0	0	0	0.05	Pass	

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF					
Emission Data Vehicle Information								
Vehicle ID / Configuration	V222E60TC-Z5014 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	FMBXV06.0U2A	Original Evaporative/Refueling Family	FMBXR0170LNS					
Original Test Vehicle Model Year	2015							
Vehicle Model								
Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	S 600					
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> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	32	Odometer Correction Factor	0.9969					
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor							
Odometer Correction Units	Miles							
Engine Code	M277-55TC	Rated Horsepower	523					
Displacement (liters)	5.98							
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)	5124	Equivalent Test Weight (pounds)	5500					
GVWR (lbs)	6041	N/V Ratio	22.6					
Axle Ratio	2.47							
Transmission Type	Automatic	# of Transmission Gears	7					
Transmission Lockup	Yes	Creep Gear	No					

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	36.869	0.72359	0.011948	19.044	-0.08951	0.018912	13.7
Cold CO	40.965	0.80399	0.013275	16.494	-0.15988	0.021048	N/A
US06	36.869	0.72359	0.011948	19.044	-0.08951	0.018912	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments DUNLOP 275/35R20 - Worst Case tire

Test #	FMBX10048076	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline
Test Date	01/25/2013	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Mercedesstrasse 137		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4723	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL (Total Hydrocarbon)	0.01741	--

Manufacturer Test Comments BETP conducted at the EVAP canister supplier Kayser in Einbeck, Germany. Therefore vehicle and test lab values are Dummy values only

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL	0.0174	0	0.017	0.02	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0174	0	0.017	0.02	Pass

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Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
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Emission Data Vehicle Information

Vehicle ID / Configuration	X167E30DETC-Z2728 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VMBXJ03.0HY1	Original Evaporative/Refueling Family	VMBXR0170LNF
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	GLS 450 4MATIC
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Leak Family Details

Leak Family Identifier	--	Leak Family Name	--
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	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	43	Odometer Correction Factor	0.9976
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	M256-30EVO	Rated Horsepower	375
Displacement (liters)	2.998		
Air Aspiration Method	Turbocharged+Supercharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Series
Charge Air Cooler Type	Liquid	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5830	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	7474	N/V Ratio	24
Axle Ratio	3.69		
Transmission Type	Automatic	# of Transmission Gears	9
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family		VMBXR0170LNF	
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	54.4	0.434	0.02788	3.7	0.13872	0.027012	19.4	
Cold CO	59.84	0.4774	0.03067	-9.847	-0.1629	0.030931	N/A	
US06	54.4	0.434	0.02788	3.7	0.13872	0.027012	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		325/35 R23						

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX10093943	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/17/2026	Fuel	Gasoline
Fuel Batch ID	U26I04	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5022	Odometer Units	M
4WD Test Dyno	Yes	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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.875	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.585	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	402.3492934	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.5660223	--	
FE BAG 1 (Bag 1 Fuel Economy)	21.7381597	21.7381597	
CH4 BAG 1 (Bag 1 Methane)	0.0087421	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0363	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0429	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	19.4453	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.843	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	385.8890868	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0068839	--	
FE BAG 2 (Bag 2 Fuel Economy)	22.7219339	22.7219339	
CH4 BAG 2 (Bag 2 Methane)	0.0001616	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0028	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.0028	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-21.4327	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.589	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	342.1755226	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.1164524	--	
FE BAG 3 (Bag 3 Fuel Economy)	25.6118655	25.6118655	
CH4 BAG 3 (Bag 3 Methane)	0.0010558	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.001	--	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0.0019	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	6.8915	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.859	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	372.5181743	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0204447	--	
FE BAG 4 (Bag 4 Fuel Economy)	23.5361526	23.5361526	
CH4 BAG 4 (Bag 4 Methane)	0.0002011	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0025	--	

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF					
	HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)	0.0026	--					
	WATT-HRS BAG 4 (Bag 4 Watt Hours)	-15.4914	--					
	METHANE (CH4 - Methane)	0.0021996	--					
	CO (Carbon Monoxide)	0.1570206	--					
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1483	--					
	DT-EER (Drive Trace Energy Economy Rating)	-0.8972	--					
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.2214	--					
	MFR FE (Manufacturer Fuel Economy)	23.4686735	23.4686735					
	NOX (Nitrogen Oxide)	0.0029923	--					
	N2O (Nitrous Oxide)	0.0002488	--					
	HC-NM (Non-methane Hydrocarbon)	0.008814	--					
	NMOG (Non-methane organic gases)	0.0091665	--					
	HC-TOTAL (Total Hydrocarbon)	0.0108251	--					
	WATT-HRS (Watt Hours)	-10.5873	--					
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CREE/OPT-CREE</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>373.6296599</td><td>373</td></tr></table>			Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	373.6296599	373
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE						
Carbon-Related Exhaust Emissions	373.6296599	373						
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>373.3489986</td><td>--</td></tr></table>			Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	373.3489986	--
Test Result Name	Unrounded Test Result	Verify Calculated CO2						
Carbon dioxide	373.3489986	--						
Manufacturer Test Comments	325/35 R23							

Certification Summary Information Report

Test Group		VMBXJ03.0HY1				Evaporative/Refueling Family				VMBXR0170LNF		
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	120,000 miles	Federal Tier 4 Bin 30	CREE	373	--	--	--	0.1705	--	373	--	--
Fed	120,000 miles	Federal Tier 4 Bin 30	METHANE	0.0022	--	--	--	0.0018	--	0.004	0.030	Pass
Fed	120,000 miles	Federal Tier 4 Bin 30	N2O	0.0002	--	--	--	0.0001	--	0	0.010	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0.16	--	--	--	0.13	--	0.3	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0092	--	1.1	--	0.004	--	0.013	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0122	--	--	--	--	--	0.021	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.003	--	--	--	0.0047	--	0.008	99.999	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	373	--	--	--	0.1705	--	373	--	--
CA	120,000 miles	California LEV-III SULEV30	METHANE	0.0022	--	--	--	0.0018	--	0.004	0.030	Pass
CA	120,000 miles	California LEV-III SULEV30	N2O	0.0002	--	--	--	0.0001	--	0	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.16	--	--	--	0.13	--	0.3	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0092	--	1.1	--	0.004	--	0.013	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0122	--	--	--	--	--	0.021	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.003	--	--	--	0.0047	--	0.008	99.999	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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX10094022	Test Procedure	49 - Quick-Driveway (QD)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/28/2026	Fuel	Gasoline
Fuel Batch ID	U26R14	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5482	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.895	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.589	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	428.9075084	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.640515	--	
FE BAG 1 (Bag 1 Fuel Economy)	20.2219559	20.2219559	
CH4 BAG 1 (Bag 1 Methane)	0.0098282	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0529	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-9.9912	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.855	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	396.8498687	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0013745	--	
FE BAG 2 (Bag 2 Fuel Economy)	21.915253	21.915253	
CH4 BAG 2 (Bag 2 Methane)	0.0002411	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0013	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-11.1215	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.592	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	347.0565761	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.106687	--	
FE BAG 3 (Bag 3 Fuel Economy)	25.0475641	25.0475641	
CH4 BAG 3 (Bag 3 Methane)	0.0010268	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0001	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-3.2712	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.86	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	376.4701476	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0299454	--	
FE BAG 4 (Bag 4 Fuel Economy)	23.0989898	23.0989898	
CH4 BAG 4 (Bag 4 Methane)	0.0002239	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0003	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	-17.1231	--	
METHANE (CH4 - Methane)	0.0024393	--	
CO (Carbon Monoxide)	0.1712379	--	

Certification Summary Information Report

Test Group		VMBXJ03.0HY1		Evaporative/Refueling Family		VMBXR0170LNF						
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.9713		--								
	DT-EER (Drive Trace Energy Economy Rating)	0.6289		--								
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.0255		--								
	MFR FE (Manufacturer Fuel Economy)	22.6427799		22.6427799								
	NOX (Nitrogen Oxide)	0.0072112		--								
	N2O (Nitrous Oxide)	0.0003688		--								
	HC-NM (Non-methane Hydrocarbon)	0.0103339		--								
	NMOG (Non-methane organic gases)	0.0113621		--								
	PM (Particulate Matter)	0.0001229		--								
	HC-TOTAL (Total Hydrocarbon)	0.0125648		--								
	WATT-HRS (Watt Hours)	-41.507		--								
Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE								
Carbon-Related Exhaust Emissions		999		--								
Test Result Name		Unrounded Test Result		Verify Calculated CO2								
Carbon dioxide		383.7976642		--								
Manufacturer Test Comments		325/35 R23										
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 4 Bin 30	NMOG	0.0114	--	1.1	--	0.004	--	0.015	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0186	--	--	--	--	--	0.027	0.042	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0072	--	--	--	0.0047	--	0.012	99.999	Pass

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX10094032	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	05/04/2026	Fuel	Gasoline
Fuel Batch ID	U27C01	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5597	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.005	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.583	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	594.4125	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.6133	--	
FE BAG 1 (Bag 1 Fuel Economy)	14.4579	14.4579	
CH4 BAG 1 (Bag 1 Methane)	0.0171	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.082	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-49.567	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.843	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	487.7522	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0235	--	
FE BAG 2 (Bag 2 Fuel Economy)	17.6547	17.6547	
CH4 BAG 2 (Bag 2 Methane)	0.0005	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	5.714	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.58	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	427.6603	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.1185	--	
FE BAG 3 (Bag 3 Fuel Economy)	20.1281	20.1281	
CH4 BAG 3 (Bag 3 Methane)	0.0012	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-12.1177	--	
METHANE (CH4 - Methane)	0.0041	--	
CO (Carbon Monoxide)	0.1719	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.503	--	
DT-EER (Drive Trace Energy Economy Rating)	0.741	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.413	--	
MFR FE (Manufacturer Fuel Economy)	17.4438	17.4438	
NOX (Nitrogen Oxide)	0.0079	--	
N2O (Nitrous Oxide)	0.0004	--	
HC-NM (Non-methane Hydrocarbon)	0.0154	--	

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family				VMBXR0170LNF			
		NMOG (Non-methane organic gases)		0.017				--				
		PM (Particulate Matter)		0.0003				--				
		HC-TOTAL (Total Hydrocarbon)		0.0191				--				
		WATT-HRS (Watt Hours)		-55.9707				--				
		Test Result Name		Unrounded Test Result				Verify Calculated CREE/OPT-CREE				
		Carbon-Related Exhaust Emissions		999				--				
		Test Result Name		Unrounded Test Result				Verify Calculated CO2				
		Carbon dioxide		493.3607				--				
Manufacturer Test Comments		325/35 R23										
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 4 Bin 30	CO	0.17	--	--	--	0.13	--	0.3	10.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.017	--	1.1	--	0.004	--	0.021	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0249	--	--	--	--	--	0.034	0.300	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0079	--	--	--	0.0047	--	0.013	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	PM	0.0003	--	--	--	0	--	0.0003	0.0005	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.17	--	--	--	0.04	--	0.2	10.0	Pass

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX10094047	Test Procedure	58 - Partial Soak (PS) - 40 minute
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/30/2026	Fuel	Gasoline
Fuel Batch ID	U26R14	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5552	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.876	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.5884232	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	366.2736344	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.0762362	--	
FE BAG 1 (Bag 1 Fuel Economy)	23.7366554	23.7366554	
CH4 BAG 1 (Bag 1 Methane)	0.0029906	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0007828	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	4.2009	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.8553218	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	372.1731723	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0015143	--	
FE BAG 2 (Bag 2 Fuel Economy)	23.3682992	23.3682992	
CH4 BAG 2 (Bag 2 Methane)	0.0002322	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0012401	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-15.1405	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.5840017	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	334.6597364	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0613116	--	
FE BAG 3 (Bag 3 Fuel Economy)	25.9803273	25.9803273	
CH4 BAG 3 (Bag 3 Methane)	0.0012007	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0005832	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-0.3407	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.8479796	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	368.5759213	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0014223	--	
FE BAG 4 (Bag 4 Fuel Economy)	23.5963756	23.5963756	
CH4 BAG 4 (Bag 4 Methane)	0.0001195	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0013575	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	-12.5557	--	
METHANE (CH4 - Methane)	0.001037	--	
CO (Carbon Monoxide)	0.0334133	--	

Certification Summary Information Report

Test Group		VMBXJ03.0HY1		Evaporative/Refueling Family		VMBXR0170LNF						
	DT-ASCR (Drive Trace Absolute Speed Change Rating)		2.0233		--							
	DT-EER (Drive Trace Energy Economy Rating)		0.6625		--							
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)		3.0178		--							
	MFR FE (Manufacturer Fuel Economy)		24.1834088		24.1834088							
	NOX (Nitrogen Oxide)		0.0045018		--							
	N2O (Nitrous Oxide)		0.0002058		--							
	HC-NM (Non-methane Hydrocarbon)		0.0009025		--							
	NMOG (Non-methane organic gases)		0.0009923		--							
	PM (Particulate Matter)		0.0000563		--							
	HC-TOTAL (Total Hydrocarbon)		0.0018509		--							
	WATT-HRS (Watt Hours)		-23.836		--							
Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE								
Carbon-Related Exhaust Emissions		999		--								
Test Result Name		Unrounded Test Result		Verify Calculated CO2								
Carbon dioxide		359.5769903		--								
Manufacturer Test Comments		325/35 R23										
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 4 Bin 30	NMOG	0.001	--	1.1	--	0.004	--	0.005	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0055	--	--	--	--	--	0.014	0.023	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0045	--	--	--	0.0047	--	0.009	99.999	Pass

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX10094048	Test Procedure	59 - Partial Soak (PS) - 3 to 12 hour
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/30/2026	Fuel	Gasoline
Fuel Batch ID	U26R14	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5567	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.952	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.6040824	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	412.7441669	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.3235	--	
FE BAG 1 (Bag 1 Fuel Economy)	21.0420861	21.0420861	
CH4 BAG 1 (Bag 1 Methane)	0.0042776	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0216824	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-20.223	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.871613	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	390.4847249	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0017241	--	
FE BAG 2 (Bag 2 Fuel Economy)	22.2725788	22.2725788	
CH4 BAG 2 (Bag 2 Methane)	0.0002199	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0004535	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-1.1903	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.6088492	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	334.0887288	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0364997	--	
FE BAG 3 (Bag 3 Fuel Economy)	26.0278461	26.0278461	
CH4 BAG 3 (Bag 3 Methane)	0.0009413	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0004266	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-4.7354	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.8672222	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	363.794127	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0070447	--	
FE BAG 4 (Bag 4 Fuel Economy)	23.90593	23.90593	
CH4 BAG 4 (Bag 4 Methane)	0.0002143	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0013499	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	-11.1358	--	
METHANE (CH4 - Methane)	0.0012579	--	
CO (Carbon Monoxide)	0.0795676	--	

Certification Summary Information Report

Test Group		VMBXJ03.0HY1		Evaporative/Refueling Family		VMBXR0170LNF						
	DT-ASCR (Drive Trace Absolute Speed Change Rating)		0.2283		--							
	DT-EER (Drive Trace Energy Economy Rating)		-0.5846		--							
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)		0.3259		--							
	MFR FE (Manufacturer Fuel Economy)		23.3887113		23.3887113							
	NOX (Nitrogen Oxide)		0.0042197		--							
	N2O (Nitrous Oxide)		0.0002319		--							
	HC-NM (Non-methane Hydrocarbon)		0.004636		--							
	NMOG (Non-methane organic gases)		0.0050973		--							
	PM (Particulate Matter)		0.0000948		--							
	HC-TOTAL (Total Hydrocarbon)		0.0057865		--							
	WATT-HRS (Watt Hours)		-37.2845		--							
Test Result Name		Unrounded Test Result		Verify Calculated CREE/OPT-CREE								
Carbon-Related Exhaust Emissions		999		--								
Test Result Name		Unrounded Test Result		Verify Calculated CO2								
Carbon dioxide		371.7121259		--								
Manufacturer Test Comments		325/35 R23										
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 4 Bin 30	NMOG	0.0051	--	1.1	--	0.004	--	0.009	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0093	--	--	--	--	--	0.018	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0042	--	--	--	0.0047	--	0.009	99.999	Pass

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX10094530	Test Procedure	57 - Partial Soak (PS) - 10 minute
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	05/15/2026	Fuel	Gasoline
Fuel Batch ID	U26R14	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5741	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.907	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.591	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	327.9388969	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.0660708	--	
FE BAG 1 (Bag 1 Fuel Economy)	26.512114	26.512114	
CH4 BAG 1 (Bag 1 Methane)	0.0010682	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0003	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0012051	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	8.638	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.857	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	358.4264247	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0013879	--	
FE BAG 2 (Bag 2 Fuel Economy)	24.264516	24.264516	
CH4 BAG 2 (Bag 2 Methane)	0.0002048	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0014	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.0014444	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-17.2584	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.595	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	327.6411159	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0794076	--	
FE BAG 3 (Bag 3 Fuel Economy)	26.5344495	26.5344495	
CH4 BAG 3 (Bag 3 Methane)	0.0012578	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0003	--	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0.0014318	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	0.0394	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.864	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	357.0614389	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0021632	--	
FE BAG 4 (Bag 4 Fuel Economy)	24.3572251	24.3572251	
CH4 BAG 4 (Bag 4 Methane)	0.0002047	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0012	--	

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF																																												
	<table><tr><td>HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)</td><td>0.0012765</td><td>--</td></tr><tr><td>WATT-HRS BAG 4 (Bag 4 Watt Hours)</td><td>-14.7125</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0006731</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.0364624</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-0.4617</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.2473</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-0.4725</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>25.3336838</td><td>25.3336838</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.0026882</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.0000216</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0007301</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0008027</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>9999.9999999</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0013417</td><td>--</td></tr><tr><td>WATT-HRS (Watt Hours)</td><td>-23.2935</td><td>--</td></tr></table>	HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)	0.0012765	--	WATT-HRS BAG 4 (Bag 4 Watt Hours)	-14.7125	--	METHANE (CH4 - Methane)	0.0006731	--	CO (Carbon Monoxide)	0.0364624	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.4617	--	DT-EER (Drive Trace Energy Economy Rating)	-1.2473	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.4725	--	MFR FE (Manufacturer Fuel Economy)	25.3336838	25.3336838	NOX (Nitrogen Oxide)	0.0026882	--	N2O (Nitrous Oxide)	0.0000216	--	HC-NM (Non-methane Hydrocarbon)	0.0007301	--	NMOG (Non-methane organic gases)	0.0008027	--	PM (Particulate Matter)	9999.9999999	--	HC-TOTAL (Total Hydrocarbon)	0.0013417	--	WATT-HRS (Watt Hours)	-23.2935	--	
HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)	0.0012765	--																																													
WATT-HRS BAG 4 (Bag 4 Watt Hours)	-14.7125	--																																													
METHANE (CH4 - Methane)	0.0006731	--																																													
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PM (Particulate Matter)	9999.9999999	--																																													
HC-TOTAL (Total Hydrocarbon)	0.0013417	--																																													
WATT-HRS (Watt Hours)	-23.2935	--																																													
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CREE/OPT-CREE</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>999</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	999	--																																								
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																													
Carbon-Related Exhaust Emissions	999	--																																													
	<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>343.2445253</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	343.2445253	--																																								
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																													
Carbon dioxide	343.2445253	--																																													
Manufacturer Test Comments	325/35 R23																																														
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 4 Bin 30	NMOG	0.0008	--	1.1	--	0.004	--	0.005	99.999	Pass																																			
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0035	--	--	--	--	--	0.012	0.015	Pass																																			
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0027	--	--	--	0.0047	--	0.007	99.999	Pass																																			

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX91006839	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/01/2026	Fuel	Gasoline
Fuel Batch ID	29858	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5909	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.8669271	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.5915255	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	465.943149	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.472002	--	
FE BAG 1 (Bag 1 Fuel Economy)	999	--	
CH4 BAG 1 (Bag 1 Methane)	0.0109834	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0443544	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0508217	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-259.801	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.8431808	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	401.1126411	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	
FE BAG 2 (Bag 2 Fuel Economy)	999	--	
CH4 BAG 2 (Bag 2 Methane)	0.0005697	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0005032	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.000995	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	-27.625	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.5815836	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	357.6816608	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0953048	--	
FE BAG 3 (Bag 3 Fuel Economy)	999	--	
CH4 BAG 3 (Bag 3 Methane)	0.0011657	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0003566	--	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0.0014589	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-15.235	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.8506376	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	389.4333259	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0	--	
FE BAG 4 (Bag 4 Fuel Economy)	999	--	
CH4 BAG 4 (Bag 4 Methane)	0.0003313	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0006866	--	

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
	HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)	0.0009294	--
	WATT-HRS BAG 4 (Bag 4 Watt Hours)	-35.135	--
	METHANE (CH4 - Methane)	0.0028262	--
	CO (Carbon Monoxide)	0.124224	--
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.8853583	--
	DT-EER (Drive Trace Energy Economy Rating)	0.1950156	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.497878	--
	MFR FE (Manufacturer Fuel Economy)	999	--
	NOX (Nitrogen Oxide)	0.0042489	--
	HC-NM (Non-methane Hydrocarbon)	0.0087399	--
	NMOG (Non-methane organic gases)	0.0096057	--
	PM (Particulate Matter)	0.0000227	--
	HC-TOTAL (Total Hydrocarbon)	0.0114532	--
	WATT-HRS (Watt Hours)	-337.796	--
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	9999.9999999	399	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	399.2005634	--	
Manufacturer Test Comments	Unrounded Result for the following test results were modified by Verify: FE BAG 3, FE BAG 4, MFR FE, FE BAG 1, FE BAG 2		

Certification Summary Information Report

Test Group		VMBXJ03.0HY1				Evaporative/Refueling Family				VMBXR0170LNF		
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	120,000 miles	Federal Tier 4 Bin 30	CREE	399	--	--	--	0.1705	--	399	--	--
Fed	120,000 miles	Federal Tier 4 Bin 30	METHANE	0.0028	--	--	--	0.0018	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0.12	--	--	--	0.13	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0096	--	1.1	--	0.004	--	0.014	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0138	--	--	--	--	--	0.022	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0042	--	--	--	0.0047	--	0.009	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	PM	0.00002	--	--	--	0	--	0	0.0005	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	399	--	--	--	0.1705	--	399	--	--
CA	120,000 miles	California LEV-III SULEV30	METHANE	0.0028	--	--	--	0.0018	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.12	--	--	--	0.13	--	0.2	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.39	--	--	--	--	--	0.4	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0096	--	1.1	--	0.004	--	0.014	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0138	--	--	--	--	--	0.022	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0178	--	--	--	--	--	0.018	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0042	--	--	--	0.0047	--	0.009	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0	--	--	--	0	--	0	0.001	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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX10093934	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/17/2026	Fuel	Gasoline
Fuel Batch ID	U26I04	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5022	Odometer Units	M
4WD Test Dyno	Yes	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))	10.268	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	10.268	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	0.6996	--	
METHANE (CH4 - Methane)	0.0001344	--	
CO (Carbon Monoxide)	0.1094761	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.6409	--	
DT-EER (Drive Trace Energy Economy Rating)	0.1454	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	7.0722	--	
MFR FE (Manufacturer Fuel Economy)	32.6171838	32.6171838	
NOX (Nitrogen Oxide)	0.0023528	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0.0002113	--	
NMOG (Non-methane organic gases)	0.0002198	--	
HC-TOTAL (Total Hydrocarbon)	0.0003342	--	
WATT-HRS (Watt Hours)	0.6996	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	268.8335187	269	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	268.6604828	--	

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family					VMBXR0170LNF		
Manufacturer Test Comments		325/35 R23										
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	120,000 miles	Federal Tier 4 Bin 30	CREE	269	--	--	--	0.1705	--	269	--	--
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0.11	--	--	--	0.13	--	0.2	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0002	--	1.03	--	0.004	--	0.004	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0026	--	--	--	--	--	0.011	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0024	--	--	--	0.0047	--	0.007	99.999	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	269	--	--	--	0.1705	--	269	--	--
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0002	--	1.03	--	0.004	--	0.004	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0026	--	--	--	--	--	0.011	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0024	--	--	--	0.0047	--	0.007	99.999	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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX91006814	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/05/2026	Fuel	Gasoline
Fuel Batch ID	29858	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5835	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	10.236469	--
METHANE (CH4 - Methane)	0.0004159	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.3035924	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6913506	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.0672848	--
MFR FE (Manufacturer Fuel Economy)	32.3592648	--
NOX (Nitrogen Oxide)	0.0019921	--
HC-NM (Non-methane Hydrocarbon)	0.0004034	--
NMOG (Non-methane organic gases)	0.0004155	--
HC-TOTAL (Total Hydrocarbon)	0.0008027	--
WATT-HRS (Watt Hours)	-9.849	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	269

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	268.8621586	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VMBXJ03.0HY1				Evaporative/Refueling Family				VMBXR0170LNF		
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	120,000 miles	Federal Tier 4 Bin 30	CREE	269	--	--	--	0.1705	--	269	--	--
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0	--	--	--	0.13	--	0.1	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0004	--	1.03	--	0.004	--	0.004	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0024	--	--	--	--	--	0.011	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.002	--	--	--	0.0047	--	0.007	99.999	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	269	--	--	--	0.1705	--	269	--	--
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0004	--	1.03	--	0.004	--	0.004	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0024	--	--	--	--	--	0.011	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.002	--	--	--	0.0047	--	0.007	99.999	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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX91006813	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	06/05/2026	Fuel	Gasoline
Fuel Batch ID	29858	Fuel Calibration Number	2
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5860	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	7.976542	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.7653153	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	648.9583924	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.60411	--	
FE BAG 1 (Bag 1 Fuel Economy)	999	--	
CH4 BAG 1 (Bag 1 Methane)	0.0051475	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0126435	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0172171	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-126.224	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.2112264	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	334.2692462	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.5083314	--	
FE BAG 2 (Bag 2 Fuel Economy)	999	--	
CH4 BAG 2 (Bag 2 Methane)	0.0014823	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0043722	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.005668	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	93.993	--	
METHANE (CH4 - Methane)	0.0022935	--	
CO (Carbon Monoxide)	0.5295285	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-3.6564596	--	
DT-EER (Drive Trace Energy Economy Rating)	-2.4858654	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-7.4195585	--	
MFR FE (Manufacturer Fuel Economy)	999	--	
NOX (Nitrogen Oxide)	0.0041661	--	
HC-NM (Non-methane Hydrocarbon)	0.0060221	--	
NMOG (Non-methane organic gases)	0.0062028	--	
PM (Particulate Matter)	0.0000946	--	
HC-TOTAL (Total Hydrocarbon)	0.008224	--	
WATT-HRS (Watt Hours)	-32.231	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	403.9141549	--	

Certification Summary Information Report

Test Group		VMBXJ03.0HY1				Evaporative/Refueling Family				VMBXR0170LNF		
Manufacturer Test Comments		Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2										
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 4 Bin 30	CO	0.53	--	--	--	0.13	--	0.7	9.6	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0062	--	1.03	--	0.004	--	0.01	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0104	--	--	--	--	--	0.019	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0042	--	--	--	0.0047	--	0.009	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	PM	0.00009	--	--	--	0	--	0.0001	0.0005	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0001	--	--	--	0	--	0	0.006	Pass

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Test #	VMBX10093944	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/02/2026	Fuel	Gasoline
Fuel Batch ID	U26R14	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5187	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
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)
ACT-DISTANCE (Actual Distance Driven (miles))	3.57	--
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.57	--
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-17.7011	--
METHANE (CH4 - Methane)	0.0012826	--
CO (Carbon Monoxide)	0.1797831	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.9651	--
DT-EER (Drive Trace Energy Economy Rating)	-0.8113	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.8028	--
MFR FE (Manufacturer Fuel Economy)	20.2232638	20.2232638
NOX (Nitrogen Oxide)	0.0036528	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0000258	--
NMOG (Non-methane organic gases)	0.0000266	--
PM (Particulate Matter)	0.0001194	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0036786	--
HC-TOTAL (Total Hydrocarbon)	0.001199	--
WATT-HRS (Watt Hours)	-17.7011	--

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family				VMBXR0170LNF			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		429.7731632			--					
Manufacturer Test Comments		325/35 R23										
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 4 Bin 30	CO	0.18	--	--	--	0.13	--	0.3	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0	--	1.03	--	0.004	--	0.004	99.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0037	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0037	--	--	--	0.0047	--	0.008	99.999	Pass

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Fuel Properties			
Fuel Batch ID	U26R14	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	03/02/2026
Fuel Batch Calibration Effective Date	03/30/2026	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	0.75
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)	41.77	Fuel Carbon Mass Fraction (E10)	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	29858	Fuel Calibration Number	2
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/12/2025
Fuel Batch Calibration Effective Date	07/12/2025	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	0.748
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17835
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.377	Fuel Carbon Mass Fraction (E10)	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	D20R06	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	07/18/2019
Fuel Batch Calibration Effective Date	12/17/2019	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 (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17308
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.82	Weight Fraction CO2	--
Fuel Batch ID	U26I04	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	08/20/2025
Fuel Batch Calibration Effective Date	01/23/2026	Fuel Batch Calibration Ineffective Date	--

Certification Summary Information Report

Test Group	VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.735
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18455
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.857	Weight Fraction CO2	--
Fuel Batch ID	D20R03	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/20/2018
Fuel Batch Calibration Effective Date	08/28/2019	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)	17867
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	U27C01	Fuel Calibration Number	1
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	04/13/2026
Fuel Batch Calibration Effective Date	04/20/2026	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	0.745
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)	41.2	Fuel Carbon Mass Fraction (E10)	0.817
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family			VMBXR0170LNF	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
Fuel		Gasoline			Test Procedure			Partial Soak (PS) - 40 minute	
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	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.023
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
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	--	--	--	--	--	--	0.13	10.0
150,000 miles	NMOG	--	--	1.1	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.300
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.0005

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family			VMBXR0170LNF	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV30	
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
120,000 miles	CREE	--	--	--	--	--	--	0.1705	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0018	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	CO	--	--	--	--	--	--	0.13	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.1	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.001

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
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
120,000 miles	CREE	--	--	--	--	--	--	0.1705	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0018	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0001	0.010
150,000 miles	CO	--	--	--	--	--	--	0.13	1.7
150,000 miles	NMOG	--	--	1.1	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.0005

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family			VMBXR0170LNF	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV30	
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
120,000 miles	CREE	--	--	--	--	--	--	0.1705	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
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	--	--	--	--	--	--	0.13	9.6
150,000 miles	NMOG	--	--	1.03	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.0005
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
Fuel		Gasoline			Test Procedure			Partial Soak (PS) - 3 to 12 hour	
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	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family			VMBXR0170LNF	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
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
120,000 miles	CREE	--	--	--	--	--	--	0.1705	999
150,000 miles	CO	--	--	--	--	--	--	0.13	1.7
150,000 miles	NMOG	--	--	1.03	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
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	--	--	--	--	--	--	0.13	1.7
150,000 miles	NMOG	--	--	1.03	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
Fuel		Gasoline			Test Procedure			Quick-Driveway (QD)	
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	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.042
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999

Certification Summary Information Report

Test Group		VMBXJ03.0HY1			Evaporative/Refueling Family			VMBXR0170LNF	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV30	
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	PM	--	--	--	--	--	--	0	0.006

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-III SULEV30	
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
50,000 miles	CO	--	--	--	--	--	--	0.04	10.0

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 30	
Fuel		Gasoline			Test Procedure			Partial Soak (PS) - 10 minute	
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	--	--	--	0.004	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.015
150,000 miles	NOX	--	--	--	--	--	--	0.0047	99.999

Evaporative/Refueling Standards

Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0		

Certification Summary Information Report

Test Group		VMBXJ03.0HY1		Evaporative/Refueling Family		VMBXR0170LNF	
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0		
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0		
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.20	0		

Certification Summary Information Report

Test Group		VMBXJ03.0HY1		Evaporative/Refueling Family		VMBXR0170LNF	
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.20	0		
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.450	0		
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		VMBXR0170LNF		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		

Certification Summary Information Report

Test Group		VMBXJ03.0HY1		Evaporative/Refueling Family		VMBXR0170LNF	
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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Test Group		VMBXJ03.0HY1	Evaporative/Refueling Family		VMBXR0170LNF
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		VMBXJ03.0HY1	Evaporative/Refueling Family	VMBXR0170LNF
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395			
Transmission Type Code				
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual	
A	Automatic	OT	Other	
AM	Automated Manual	SA	Semi-Automatic	
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
Drive System Code				
4	4-Wheel Drive	P	Part-time 4-Wheel Drive	

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Test Group		VMBXJ03.0HY1		Evaporative/Refueling Family		VMBXR0170LNF	
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		