

Certification Summary Information Report

Manufacturer	Mercedes Benz	Manufacturer Code	MBX
Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Certificate Number	VMBXJ02.0HY3-032	CARB Executive Order #	--
Certificate Issue Date	10/02/2026	Certificate Revision Date	--
Certificate Effective Date	10/02/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	09/11/2026 03:23:12 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
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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: Electric Motor

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

Drive Source #2: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition Direct fuel injection	No

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDV, LDT2
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	VMBXHHGNNB13	Durability Group Equivalency Factor	0.6
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	10/01/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VMBXJ02.0HY3
Test Group OBD Compliance Level	Partial - with deficiencies and penalty	Number of Test Group OBD Deficiencies	5
OBD Deficiencies Comments	Reference No: E-26-176		
Mfr Test Group Comments	Interim Tier 4 Test Group / Test Group qualifies for Derived 5-Cycle Approach: City Litmus Threshold: 21.6 mpg , City FE 22.6 mpg - PASS / HWY Litmus Threshold: 28.5 mpg , HWY FE: 30.2 mpg - PASS /Sales: Federal = Nationwide (50 states); CA = CA + 177 States		
Mfr Exhaust / Evap Standards Comments	--		

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Test Group	VMBXJ02.0HY3		Evaporative/Refueling Family	VMBXR0095LNA			
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/20/2026 09:00:13 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)	95	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	5				
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: 0.012 g/test; KMBX10055623						
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				
VMBXR0095LNA-LNA	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	505 - GLA 250 4MATIC	California + CAA Section 177 states	All Wheel Drive	Automated Manual	8	Yes
Mercedes Benz	1 - Mercedes-Benz	506 - GLA 250	California + CAA Section 177 states	2-Wheel Drive, Front	Automated Manual	8	Yes
Mercedes Benz	1 - Mercedes-Benz	505 - GLA 250 4MATIC	Federal	All Wheel Drive	Automated Manual	8	Yes
Mercedes Benz	1 - Mercedes-Benz	506 - GLA 250	Federal	2-Wheel Drive, Front	Automated Manual	8	Yes
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			
Number of Cylinders/Rotors	4		Mechanically Variable Compression Ratio Indicator	N			

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Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA								
After Treatment Device(s) (ATD)											
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction							
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith							
Mfr After Treatment Device (ATD) Comments											
--											
Direct Ozone Reduction (DOR) Device											
Not Equipped											
Mfr Emission Control Device Comments											
--											
Engine Configuration Number 1											
Engine Displacement (liters)	2.0	Engine Rated Horsepower	221								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1								
Air Aspiration Device Configuration	Single	Charge Air Cooler Type	Liquid								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	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?	Yes										
Variable Valve Lift System Description	High/Low position on inlet side										
Number of Knock Sensors	2	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	--										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline	SMBX10088631	SMBX10088631	SMBX10088653	SMBX10088654	SMBX10088658	SMBX10088652	26.5	228.2	39.2	286.1	--
Electricity	SMBX10088631	SMBX10088631	SMBX10088653	SMBX10088654	SMBX10088658	SMBX10088652	--	--	--	--	--

Certification Summary Information Report

Test Group		VMBXJ02.0HY3		Evaporative/Refueling Family		VMBXR0095LNA	
SFTP LEV-III Official Test Numbers							
Test Group Fuel		FTP		US06		SC03	
Electricity		SMBX10088631		SMBX10088653		SMBX10088654	
Gasoline		SMBX10088631		SMBX10088653		SMBX10088654	
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		48		Battery Energy Capacity		7.7	
Battery Specific Energy		52.9		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		permanent magnet synchronous		Rated Motor/Generator Power		10	
Mfr Fuel Cell Description		--					
Fuel Cell On-Board H2 Storage Capacity (kg)		--		Usable H2 Fill Capacity (kg)		--	
Mfr Hybrid Electric/ Electric Vehicle Comments		RSG2 Engine 48V technology					

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
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Emission Data Vehicle Information

Vehicle ID / Configuration	V177E20DETC-Z9026-1 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	KMBXV02.0U2B	Original Evaporative/Refueling Family	KMBXR0095LNA
Original Test Vehicle Model Year	2019		

Vehicle Model

Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	A 220 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	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	2729	Odometer Correction Factor	0.994
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	M260-20DETC	Rated Horsepower	188
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	Liquid	Drive Mode While Testing	2-Wheel Drive, Front
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3422	Equivalent Test Weight (pounds)	3750
GVWR (lbs)	4519	N/V Ratio	26.6
Axle Ratio	2.39		
Transmission Type	Automatic	# of Transmission Gears	7
Transmission Lockup	Yes	Creep Gear	No

Dynamometer Coefficients:

Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)
City/Highway/Evap	34.61	0.4447	0.01478	20.56	0.2155	0.01554	12.5
US06	34.61	0.4447	0.01478	20.56	0.2155	0.01554	N/A

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA						
Emission Control Device Comments	--								
Manufacturer Test Vehicle Comments	Pirelli 225/40 R19								
Test #	KMBX10055623	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium Gasoline						
Test Date	04/09/2018	Fuel	Gasoline						
Fuel Batch ID	--	Fuel Calibration Number	--						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	3953 Research Park Drive								
E10 Evaporative Test Measurement Method	--								
Test Start Odometer Reading	6759	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	--								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value</th> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0122</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL (Total Hydrocarbon)	0.0122	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL (Total Hydrocarbon)	0.0122	--							
Manufacturer Test Comments									
BETP conducted at the testing facility Sterling Performance in Milford, Michigan on behalf of Stant (POIA) and Daimler. Therefore vehicle and test lab values are Dummy values only. Three different samples tested with results btw 9.0 and 12.2 mg HC. Representative for all MFA Gen.2 fuel tank versions									
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	0.0122	0	0.012	0.02	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0122	0	0.012	0.02	Pass	

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Test Group	VMBXJ02.0HY3		Evaporative/Refueling Family	VMBXR0095LNA																							
Emission Data Vehicle Information																											
Vehicle ID / Configuration	X247E20DETC-Z2128 / 2		Manufacturer Vehicle Configuration Number	0																							
Original Test Group Name	NMBXV02.0U3A		Original Evaporative/Refueling Family	NMBXR0095LNA																							
Original Test Vehicle Model Year	2022																										
Vehicle Model																											
Represented Test Vehicle Make	Mercedes-Benz		Represented Test Vehicle Model	AMG GLB 35 4MATIC																							
Leak Family Details																											
Leak Family Identifier	LNA		Leak Family Name	NMBXR0095LNA-LNA																							
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	--																							
Fuel Cell Indicator	--		Rechargeable Energy Storage System, if 'Other'	--																							
Rechargeable Energy Storage System	--																										
Off-board charge Capable Indicator	--		Odometer Correction Factor	0.9967																							
Odometer Correction -- Initial	148																										
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor																										
Odometer Correction Units	Miles																										
Engine Code	M260-20DETC-S		Rated Horsepower	302																							
Displacement (liters)	1.991		Air Aspiration Method, if 'Other'																								
Air Aspiration Method	Turbocharged		Air Aspiration Device Configuration	Single																							
Number of Air Aspiration Devices	1		Drive Mode While Testing	2-Wheel Drive, Front																							
Charge Air Cooler Type	Liquid		Aged Emission Components	4,000 (mi)																							
Shift Indicator Light Usage	Not equipped		Equivalent Test Weight (pounds)	4500																							
Curb Weight (lbs)	4114		N/V Ratio	22.3																							
GVWR (lbs)	5430																										
Axle Ratio	2.68		# of Transmission Gears	8																							
Transmission Type	Automated Manual		Creep Gear	No																							
Transmission Lockup	Yes																										
Dynamometer Coefficients:																											
<table border="1"> <tr> <th colspan="3">Target Coefficients</th> <th colspan="3">Set Coefficients</th> <th rowspan="2">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</th> </tr> <tr> <th>Coefficient Category</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> <th>A (lbf)</th> <th>B (lbf/mph)</th> <th>C (lbf/mph**2)</th> </tr> <tr> <td>City/Highway/Evap</td> <td>49.46</td> <td>0.3255</td> <td>0.02444</td> <td>23.65</td> <td>0.1752</td> <td>0.02511</td> <td>16.9</td> </tr> </table>						Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	City/Highway/Evap	49.46	0.3255	0.02444	23.65	0.1752	0.02511	16.9
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	49.46	0.3255	0.02444	23.65	0.1752	0.02511	16.9																				
Emission Control Device Comments	--																										

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA						
Manufacturer Test Vehicle Comments	255/35 R21								
Test #	NMBX10070136	Test Procedure	34 - Federal fuel 3-day evap						
Exhaust Test # for this Evap Test	MMBX10070131	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	04/28/2021	Fuel	Gasoline						
Fuel Batch ID	U22R00	Fuel Calibration Number	1						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	Ann Arbor Technology Center								
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)								
Test Start Odometer Reading	4536	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 (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.242</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.242	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.242	--							
Manufacturer Test Comments									
3Day EVAP Test Result. Hot Soak: 0.063 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	0.242	0	0.242	0.3	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.242	0	0.242	0.3	Pass	

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	NMBX91004809	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	NMBX91004808	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/09/2021	Fuel	Gasoline
Fuel Batch ID	27626	Fuel Calibration Number	2
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4703	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.294479	--

Manufacturer Test Comments

Hot_Soak_HC_(g) = 0.051563, Diurnal (gHC) = 0.242916

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	0.2945	0	0.294	0.3	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2945	0	0.294	0.3	Pass

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Test Group	VMBXJ02.0HY3		Evaporative/Refueling Family		VMBXR0095LNA									
Test #	NMBX10070133		Test Procedure		24 - Federal fuel refueling test (ORVR)									
Exhaust Test # for this Evap Test	MMBX10070130		Test Fuel Type		49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)									
Test Date	04/21/2021		Fuel		Gasoline									
Fuel Batch ID	U22R00		Fuel Calibration Number		1									
Vehicle Class	N/A		DF Type		Mfr. Determined									
Verify Test Lab ID	Ann Arbor Technology Center													
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)													
Test Start Odometer Reading	4457		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</th> </tr> </thead> <tbody> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.097</td> <td>--</td> </tr> </tbody> </table>			Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.097	--						
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value												
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.097	--												
Manufacturer Test Comments														
			ORVR Test 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	HC-TOTAL-EQUIV	0.097	0.016	0.11	0.2	Pass						
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.097	0.016	0.11	0.2	Pass						

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	NMBX10070135	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	MMBX10070131	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/28/2021	Fuel	Gasoline
Fuel Batch ID	U22R00	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	Ann Arbor Technology Center		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4519	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
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.001564	--

Manufacturer Test Comments --

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	0.002	0	0	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.002	0	0	0.05	Pass

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA									
Emission Data Vehicle Information												
Vehicle ID / Configuration	X247E20DETC-Z2576 / 0	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	SMBXJ02.0HY3	Original Evaporative/Refueling Family	SMBXR0095LNA									
Original Test Vehicle Model Year	2025											
Vehicle Model												
Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	GLB 250 4MATIC									
Leak Family Details												
Leak Family Identifier	--	Leak Family Name	--									
Drive Sources and Fuel System Details												
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> <tr> <td>2</td><td>Combustion Engine</td><td>Gasoline</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	No											
Odometer Correction -- Initial	17	Odometer Correction Factor	0.9964									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Miles											
Engine Code	M260-20DETC	Rated Horsepower	221									
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	Liquid	Drive Mode While Testing	All Wheel Drive									
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)									
Curb Weight (lbs)	4067	Equivalent Test Weight (pounds)	4250									
GVWR (lbs)	5390	N/V Ratio	24.4									
Axle Ratio	2.96											
Transmission Type	Automated Manual	# of Transmission Gears	8									
Transmission Lockup	Yes	Creep Gear	No									

Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family		VMBXR0095LNA	
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	42.26	0.2604	0.0227	13.3	-0.1544	0.024258	14.9	
Cold CO	46.49	0.2864	0.02497	3.03	-0.34853	0.027126	N/A	
US06	42.26	0.2604	0.0227	13.3	-0.1544	0.024258	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		Notes: EDV tire 235/45 R20 & Selected for 50°F CA Test: Target Coefficients: A0/A1/A2 42.26 / 0.2604 / 0.0227 with Set Coefficients: A0/A1/A2 8.08 / -0.26291 / 0.0247						

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	SMBX10085228	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	03/11/2024	Fuel	Gasoline
Fuel Batch ID	U25I01	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	4108	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	333.2773954	--
FE BAG 1 (Bag 1 Fuel Economy)	26.2604	26.2604
CO2 BAG 2 (Bag 2 Carbon Dioxide)	309.0818022	--
FE BAG 2 (Bag 2 Fuel Economy)	28.3794	28.3794
CO2 BAG 3 (Bag 3 Carbon Dioxide)	260.527914	--
FE BAG 3 (Bag 3 Fuel Economy)	33.6816	33.6816
CO2 BAG 4 (Bag 4 Carbon Dioxide)	298.9386526	--
FE BAG 4 (Bag 4 Fuel Economy)	29.343	29.343
METHANE (CH4 - Methane)	0.0014415	--
CO (Carbon Monoxide)	0.4075532	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7875	--
DT-EER (Drive Trace Energy Economy Rating)	0.0251	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.9722	--
MFR FE (Manufacturer Fuel Economy)	29.4471426	29.4471426
NOX (Nitrogen Oxide)	0.0098962	--
N2O (Nitrous Oxide)	0.000405	--
HC-NM (Non-methane Hydrocarbon)	0.0077909	--
NMOG (Non-methane organic gases)	0.0081025	--
HC-TOTAL (Total Hydrocarbon)	0.0091558	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	298.4194383	299

Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family				VMBXR0095LNA			
		Test Result Name		Unrounded Test Result				Verify Calculated CO2				
		Carbon dioxide		297.7506651				--				
Manufacturer Test Comments		-----235/45 R20 - / FTP GHG NMOG = 1.04*NMHC / Added HC-NM										
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 3 Bin 30	CREE	299	--	--	--	0	--	299	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0014	--	--	--	0.0013	--	0.003	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0004	--	--	--	0	--	0	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.41	--	--	--	0	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0081	--	1.1	--	0	--	0.008	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.018	--	--	--	--	--	0.02	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0099	--	--	--	0.0021	--	0.012	99.999	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	299	--	--	--	0	--	299	--	--
CA	120,000 miles	California LEV-III SULEV30	METHANE	0.0014	--	--	--	0.0013	--	0.003	0.030	Pass
CA	120,000 miles	California LEV-III SULEV30	N2O	0.0004	--	--	--	0	--	0	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.41	--	--	--	0	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0081	--	1.1	--	0	--	0.008	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.018	--	--	--	--	--	0.02	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0099	--	--	--	0.0021	--	0.012	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	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	SMBX10085225	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	03/11/2024	Fuel	Gasoline
Fuel Batch ID	U25I01	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	4123	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)
METHANE (CH4 - Methane)	0.0007602	--
CO (Carbon Monoxide)	0.1485281	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.045	--
DT-EER (Drive Trace Energy Economy Rating)	-0.279	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.074	--
MFR FE (Manufacturer Fuel Economy)	43.4204064	43.4204064
NOX (Nitrogen Oxide)	0.0020719	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0011088	--
NMOG (Non-methane organic gases)	0.0011531	--
HC-TOTAL (Total Hydrocarbon)	0.0018286	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	202.3844221	202

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	202.1453912	--

Manufacturer Test Comments -----235/45 R20 - HWY GHG NMOG = 1.04*NMHC

Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family					VMBXR0095LNA		
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 3 Bin 30	CREE	202	--	--	--	0	--	202	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0012	--	1.03	--	0	--	0.001	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0033	--	--	--	--	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0021	--	--	--	0.0021	--	0.004	99.999	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	202	--	--	--	0	--	202	--	--
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0012	--	1.03	--	0	--	0.001	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0033	--	--	--	--	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0021	--	--	--	0.0021	--	0.004	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	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA									
Emission Data Vehicle Information												
Vehicle ID / Configuration	X247E20DETC-Z2576 / 2	Manufacturer Vehicle Configuration Number	2									
Original Test Group Name	SMBXJ02.0HY3	Original Evaporative/Refueling Family	SMBXR0095LNA									
Original Test Vehicle Model Year	2025											
Vehicle Model												
Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	GLB 250 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>Electric Motor</td><td>Electricity</td></tr> <tr> <td>2</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
Hybrid Indicator	Yes											
Multiple Fuel Storage	--	Multiple Fuel Combustion	--									
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes									
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--									
Off-board charge Capable Indicator	No											
Odometer Correction -- Initial	17	Odometer Correction Factor	0.9964									
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor											
Odometer Correction Units	Miles											
Engine Code	M260-20DETC	Rated Horsepower	221									
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	Liquid	Drive Mode While Testing	All Wheel Drive									
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)									
Curb Weight (lbs)	4067	Equivalent Test Weight (pounds)	4250									
GVWR (lbs)	5390	N/V Ratio	24.4									
Axle Ratio	2.96											
Transmission Type	Automated Manual	# of Transmission Gears	8									
Transmission Lockup	Yes	Creep Gear	No									

Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family		VMBXR0095LNA	
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	42.26	0.2604	0.0227	13.812	-0.1197	0.0236	14.9	
Cold CO	46.49	0.2864	0.02497	3.305	-0.3497	0.02688	N/A	
US06	42.26	0.2604	0.0227	13.812	-0.1197	0.0236	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		235/45 R20						

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	SMBX10088631	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	12/13/2024	Fuel	Gasoline
Fuel Batch ID	U25R03	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	4416	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	319.3257915	--
FE BAG 1 (Bag 1 Fuel Economy)	27.1998576	27.1998576
CO2 BAG 2 (Bag 2 Carbon Dioxide)	312.6714423	--
FE BAG 2 (Bag 2 Fuel Economy)	27.838889	27.838889
CO2 BAG 3 (Bag 3 Carbon Dioxide)	276.3683779	--
FE BAG 3 (Bag 3 Fuel Economy)	31.5080319	31.5080319
CO2 BAG 4 (Bag 4 Carbon Dioxide)	304.8352844	--
FE BAG 4 (Bag 4 Fuel Economy)	28.5555585	28.5555585
METHANE (CH4 - Methane)	0.0015514	--
CO (Carbon Monoxide)	0.4564438	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.0692	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6146	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.4664	--
MFR FE (Manufacturer Fuel Economy)	28.8347478	28.8347478
NOX (Nitrogen Oxide)	0.008292	--
N2O (Nitrous Oxide)	0.0003043	--
HC-NM (Non-methane Hydrocarbon)	0.0068796	--
NMOG (Non-methane organic gases)	0.007571	--
PM (Particulate Matter)	0.0002663	--
HC-TOTAL (Total Hydrocarbon)	0.0082005	--

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Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family					VMBXR0095LNA		
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 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0016	--	--	--	0.0013	--	0.003	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0003	--	--	--	0	--	0	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.46	--	--	--	0	--	0.5	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.48	--	--	--	--	--	0.5	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0076	--	1.1	--	0	--	0.008	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0159	--	--	--	--	--	0.018	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0148	--	--	--	--	--	0.015	0.040	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0083	--	--	--	0.0021	--	0.01	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0003	--	--	--	0	--	0	0.003	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	999	--	--	--	0	--	999	--	--
CA	120,000 miles	California LEV-III SULEV30	METHANE	0.0016	--	--	--	0.0013	--	0.003	0.030	Pass
CA	120,000 miles	California LEV-III SULEV30	N2O	0.0003	--	--	--	0	--	0	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.46	--	--	--	0	--	0.5	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.48	--	--	--	--	--	0.5	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0076	--	1.1	--	0	--	0.008	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0159	--	--	--	--	--	0.018	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0148	--	--	--	--	--	0.015	0.040	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0083	--	--	--	0.0021	--	0.01	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0003	--	--	--	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	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	SMBX10088658	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	12/10/2024	Fuel	Gasoline
Fuel Batch ID	U25C05	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	4360	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	439.5893064	--
FE BAG 1 (Bag 1 Fuel Economy)	19.7522288	19.7522288
CO2 BAG 2 (Bag 2 Carbon Dioxide)	397.6123246	--
FE BAG 2 (Bag 2 Fuel Economy)	21.8956838	21.8956838
CO2 BAG 3 (Bag 3 Carbon Dioxide)	331.9970651	--
FE BAG 3 (Bag 3 Fuel Economy)	26.218997	26.218997
METHANE (CH4 - Methane)	0.0028703	--
CO (Carbon Monoxide)	0.6052965	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.721	--
DT-EER (Drive Trace Energy Economy Rating)	1.1668	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.034	--
MFR FE (Manufacturer Fuel Economy)	22.4071034	22.4071034
NOX (Nitrogen Oxide)	0.010046	--
N2O (Nitrous Oxide)	0.0003693	--
HC-NM (Non-methane Hydrocarbon)	0.0136372	--
NMOG (Non-methane organic gases)	0.0150076	--
HC-TOTAL (Total Hydrocarbon)	0.0159779	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	388	--

Certification Summary Information Report

Test Group		VMBXJ02.0HY3				Evaporative/Refueling Family				VMBXR0095LNA		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		388.2804863			--					
Manufacturer Test Comments		235/45 R20										
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	50,000 miles	Federal Tier 3 Bin 30	CO	0.61	--	--	--	0	--	0.6	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.0136	--	--	--	0	--	0.014	0.100	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.61	--	--	--	0	--	0.6	10.0	Pass

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	SMBX10088652	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	12/13/2024	Fuel	Gasoline
Fuel Batch ID	U25R03	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	4431	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)
METHANE (CH4 - Methane)	0.0009184	--
CO (Carbon Monoxide)	0.1284518	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.622	--
DT-EER (Drive Trace Energy Economy Rating)	-0.5926	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.7276	--
MFR FE (Manufacturer Fuel Economy)	42.9257285	42.9257285
NOX (Nitrogen Oxide)	0.0019767	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0005129	--
NMOG (Non-methane organic gases)	0.0005283	--
PM (Particulate Matter)	0.0000475	--
HC-TOTAL (Total Hydrocarbon)	0.0013605	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	203	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	202.9972215	--

Manufacturer Test Comments 235/45 R20

Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family					VMBXR0095LNA		
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 3 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0005	--	1.03	--	0	--	0	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0025	--	--	--	--	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.002	--	--	--	0.0021	--	0.004	99.999	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	999	--	--	--	0	--	999	--	--
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0005	--	1.03	--	0	--	0	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0025	--	--	--	--	--	0.005	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.002	--	--	--	0.0021	--	0.004	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	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	SMBX10088653	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	12/13/2024	Fuel	Gasoline
Fuel Batch ID	U25R03	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	4453	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)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	454.081664	--
FE BAG 1 (Bag 1 Fuel Economy)	19.1355672	19.1355672
CO2 BAG 2 (Bag 2 Carbon Dioxide)	268.2231259	--
FE BAG 2 (Bag 2 Fuel Economy)	32.4187565	32.4187565
CO (Carbon Monoxide)	0.6337352	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.1025	--
DT-EER (Drive Trace Energy Economy Rating)	-1.2136	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-3.8619	--
MFR FE (Manufacturer Fuel Economy)	28.0926347	28.0926347
NOX (Nitrogen Oxide)	0.0061247	--
N2O (Nitrous Oxide)	0.000046	--
HC-NM (Non-methane Hydrocarbon)	0.0095858	--
NMOG (Non-methane organic gases)	0.0098733	--
PM (Particulate Matter)	0.0007993	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0157105	--
HC-TOTAL (Total Hydrocarbon)	0.0149084	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	309.4544954	--

Manufacturer Test Comments 235/45 R20

Certification Summary Information Report

Test Group		VMBXJ02.0HY3				Evaporative/Refueling Family				VMBXR0095LNA		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0008	--	--	--	0	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0008	--	--	--	0	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Test #	SMBX10088654	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	12/13/2024	Fuel	N/A
Fuel Batch ID	U25R03	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	3953 Research Park Drive		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4469	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)	
CO (Carbon Monoxide)	0.3861895	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.0458	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.7687	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.505	--	
MFR FE (Manufacturer Fuel Economy)	25.1091296	25.1091296	
NOX (Nitrogen Oxide)	0.0072527	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0	--	
NMOG (Non-methane organic gases)	0	--	
PM (Particulate Matter)	0.0000572	--	
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0072527	--	
HC-TOTAL (Total Hydrocarbon)	0.0006398	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	346.7806184	--	
Manufacturer Test Comments	235/45 R20		

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Fuel Properties			
Fuel Batch ID	27626	Fuel Calibration Number	2
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/11/2018
Fuel Batch Calibration Effective Date	12/11/2018	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	0.742
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18001
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	U25R03	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	05/23/2024
Fuel Batch Calibration Effective Date	08/27/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.753
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18052
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.833	Weight Fraction CO2	--
Fuel Batch ID	U25I01	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/13/2023
Fuel Batch Calibration Effective Date	02/15/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.743
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18885
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.85	Weight Fraction CO2	--
Fuel Batch ID	U22R00	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/16/2020
Fuel Batch Calibration Effective Date	01/01/2021	Fuel Batch Calibration Ineffective Date	--

Certification Summary Information Report

Test Group	VMBXJ02.0HY3	Evaporative/Refueling Family	VMBXR0095LNA
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	10	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17955
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.823	Weight Fraction CO2	--
Fuel Batch ID	U25C05	Fuel Calibration Number	1
Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)	Fuel Batch Calibration Date	04/11/2024
Fuel Batch Calibration Effective Date	12/02/2024	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.744
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17795
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family			VMBXR0095LNA	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 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	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0013	0.030
120,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	CO	--	--	--	--	--	--	0	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.1	--	--	--	0	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0021	99.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 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	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0021	99.999

Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family			VMBXR0095LNA	
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	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0013	0.030
120,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	CO	--	--	--	--	--	--	0	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.1	--	--	--	0	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	--	--	--	0.0021	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 3 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	PM	--	--	--	--	--	--	0	0.006
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 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
50,000 miles	CO	--	--	--	--	--	--	0	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.100

Certification Summary Information Report

Test Group		VMBXJ02.0HY3			Evaporative/Refueling Family			VMBXR0095LNA	
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	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0021	99.999
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			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-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
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	10.0
Evaporative/Refueling Standards									

Certification Summary Information Report

Test Group		VMBXJ02.0HY3		Evaporative/Refueling Family		VMBXR0095LNA	
Evaporative/Refueling Family		VMBXR0095LNA		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	--	0.300	0		
Evaporative/Refueling Family		VMBXR0095LNA		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		VMBXR0095LNA		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.016		
Evaporative/Refueling Family		VMBXR0095LNA		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		
Evaporative/Refueling Family		VMBXR0095LNA		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	--	0.300	0		

Certification Summary Information Report

Test Group		VMBXJ02.0HY3		Evaporative/Refueling Family		VMBXR0095LNA	
Evaporative/Refueling Family		VMBXR0095LNA		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		VMBXR0095LNA		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		VMBXR0095LNA		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	--	0.300	0		
Evaporative/Refueling Family		VMBXR0095LNA		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.300	0		
Evaporative/Refueling Family		VMBXR0095LNA		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	HC-TOTAL-EQUIV	--	0.20	0.016		

Certification Summary Information Report

Test Group		VMBXJ02.0HY3	Evaporative/Refueling Family		VMBXR0095LNA
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide		LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon		KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent		CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent		CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases		CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde		CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde		CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide		CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol		NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy		NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy		NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy		NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy		ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy		ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR		ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane		ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol		HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide		HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams		HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours		HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours		WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours		WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VMBXJ02.0HY3	Evaporative/Refueling Family		VMBXR0095LNA
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		VMBXJ02.0HY3	Evaporative/Refueling Family		VMBXR0095LNA
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

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F	2-Wheel Drive, Front			A	All Wheel Drive		
R	2-Wheel Drive, Rear						
Additional Terms and Acronyms							
AFC	Alternative Fuel Converter			ICI	Independent Commercial Importer		
CSI	Certificate Summary Information			ORVR	Onboard Refueling Vapor Recovery		
DF	Deterioration Factor			SIL	Shift Indicator Light		
Evap	Evaporation, Evaporative			Trans	Transmission		