

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

CARB USE ONLY

Invoice Name	MSF250697
Invoice Date	Jan 15, 2026

COMPANY INFORMATION

Company Name	Mercedes-Benz USA
Address	13470 International Pkwy
City	Jacksonville
State	FLORIDA
Zip	32218
Country	United States
Contact Name	Brandin Benson
Contact Telephone Number	5515797969
Contact Email	brandin.b.benson@mbusa.com
CARB Customer Number	CCAM000021

APPLICATION INFORMATION

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	n/a	Model Year 2027	VMBXT00.0ED3	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
2	n/a	Model Year 2027	VMBXT00.0ED4	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
3	n/a	Model Year 2027	VMBXV00.0E10	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
4	n/a	Model Year 2027	VMBXV00.0ED1	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
5	n/a	Model Year 2027	VMBXV00.0ED2	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
6	n/a	Model Year 2027	VMBXV00.0ED3	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
7	n/a	Model Year 2027	VMBXV00.0ED4	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
8	n/a	Model Year 2027	VMBXV00.0ED5	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
9	n/a	Model Year 2027	VMBXV00.0ED8	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00

10	n/a	Model Year 2027	VMBXV00.0ED9	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	\$ 12,577.00
11	n/a	Model Year 2027	VMBXV04.0U3A	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
12	n/a	Model Year 2027	VMBXT02.0HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
13	n/a	Model Year 2027	VMBXV02.0HY2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
14	n/a	Model Year 2027	VMBXV01.5HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
15	n/a	Model Year 2027	VMBXJ02.0HY3	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
16	n/a	Model Year 2027	VMBXV01.5HY2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
17	n/a	Model Year 2027	VMBXV02.0HY4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
18	n/a	Model Year 2027	VMBXT02.0HY2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
19	n/a	Model Year 2027	VMBXV02.0HY7	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
20	n/a	Model Year 2027	VMBXT03.0HY2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
21	n/a	Model Year 2027	VMBXV03.0HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
22	n/a	Model Year 2027	VMBXT03.0HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
23	n/a	Model Year 2027	VMBXJ03.0HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
24	n/a	Model Year 2027	VMBXV03.0HY2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
25	n/a	Model Year 2027	VMBXV03.0HY3	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
26	n/a	Model Year 2027	VMBXT04.0HY2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
27	n/a	Model Year 2027	VMBXV04.0HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
28	n/a	Model Year 2027	VMBXT04.0HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
29	n/a	Model Year 2027	VMBXV02.0HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
30	n/a	Model Year 2027	VMBXJ02.0HY1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
31	n/a	Model Year 2027	VMBXV03.0HY4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00
32	n/a	Model Year 2027	VMBXV04.0HY5	Light-duty vehicle test group and	Base	\$ 50,309.00

				medium-duty vehicle test group		
						Total Due \$ 1,232,568.00

I, John Healey
John Healey (Jan 15, 2026 10:38:03 EST), attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)

From: noreply@salesforce.com <noreply@salesforce.com> **On Behalf Of** California Air
Sent: Wednesday, February 11, 2026 10:47 AM
To: Healey, John (171) <john.healey@mbusa.com>
Subject: MS Fee Payment Confirmation for Invoice MSF250697

****EXTERNAL E-MAIL****

Dear Brandin Benson

Attached is documentation for your MS Fee payment for Invoice Name MSF250697. Please include a copy of this invoice and email with each application that is listed when submitting your application to the applicable MS Fee program.

1. Payment ID – 25ATD221
2. Date of Payment – 2/6/2026
3. Payment Status - Paid



Application for Certification – Part 1

Model Year 2027 Specific Sections

Model(s) Covered:	CLA 220
Test Group:	VMBXV01.5HY1
Test Group Description:	1.5 ltr. I-4 turbocharged with 22 kW electric motor (48V)
Durability Group:	VMBXHHGNNB12
Durability Group Description:	Otto Cycle - Four Stroke - Water Cooled - Piston - Premium Gasoline - Direct Injection - Monolith - Pt / Pd / Rh TWC - Gasoline Particulate Filter (GPF)
Evaporative Family:	VMBXR0110LNA
EPA Summary Sheet No.:	CSI-VMBXV01.5HY1-VMBXR0110LNA
Applicable Standards:	Federal – Interim Tier 4 BIN 30 California - LEV III ULEV 30
OBD Group:	MRGx D
Vehicle(s) Tested Exhaust:	C178E15DETC P2-eDCT - Z2761 C178E15DETC P2-eDCT - Z27961
Vehicle(s) Tested EVAP:	C178E15DETC P2-eDCT - Z2705 W246E20DETC_EvB - Z3004



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Mercedes-Benz AG

U.S. Certification

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Revision History

Issue Date / Revision Date	Affected Sections	Description of Changes
08-Jul-2026	All	Initial Version
22-Jul-2026	CSI	Litmus results added



1 Correspondence

1.01 EPA Responsible Official

Paul Skorupskas
VP, US Certification & Regulatory Affairs
Government Liaison, EPA
Phone: +1 (734) 929 8658
Email: paul.skorupskas@mercedes-benz.com

1.02 CARB Responsible Official

Tobias Schmelzle
Manager, US OBD Certification
Government Liaison, CARB
Phone: +1 (562) 243 7672
Email: tobias.t.schmelzle@mercedes-benz.com

1.03 Mailing Information

Mercedes-Benz AG
Attention: HPC 059-L404
Leibnizstrasse 2
71032 Boeblingen
Germany



2 Durability Group

2.01 Logic for Defining Durability Group

Please refer to the Common Application for Certification.



3 Evaporative/Refueling Family

3.01 Logic for Defining Evaporative/Refueling Family

Please refer to the Common Application for Certification. Results are available in Section 7 Test Results.



4 Durability Procedure

4.01 Exhaust Durability

Please refer to Section 16 Confidential Information for the test results used to establish deterioration factors. Applied DFs used can be found in Section 7 Test Results (CSI).

4.02 Evaporative/Refueling Durability

Please refer to Section 16 Confidential Information for the test results used to establish deterioration factors. Applied DFs used can be found in Section 7 Test Results (CSI).

4.03 Durability Equivalency Factors

Please refer to Section 16 Confidential Information.



5 Test Group

5.01 Test Group Description

Please refer to the Cover Page, Section 7 Test Results, and the Common Application for Certification.

Category	Group	Status
EDV/ZEV	VMBXV01.5HY1	New Testing
EVAP	VMBXR0110LNA	New Testing
Durability	VMBXHHGNNB12	New Testing



6 Test Vehicle

6.01 Test Vehicle Description

Please refer to Section 7 Test Results and Section 12 Vehicles Covered by Certificate for further information.



7 Test Results

7.01 Certification Summary Information

Please refer to the attachments for the Certification Summary Information Sheet.

7.02 Supplemental Test Methods

If a test vehicle is selected for EPA Confirmatory Testing, additional information will be provided under separate cover.

7.03 Pressurized Fuel Tanks

Not applicable for this test group.

7.04 Vehicle Lubricants

Please refer to the attachments for the Certification Summary Information Sheet and/or the owner's manual.



8 Statements

8.01 Conformity

Please refer to Section 14 Request for Certificates and the Common Application for Certification.

8.02 Testing Waiver Statements

Please refer to the Common Application for Certification.



9 On-Board Diagnostic System

9.01 OBD System

Please refer to Section 14 Request for Certificates and Section 16 Confidential Information.

9.02 Fuel Tank Leak Test

Please refer to the Common Application for Certification.



10 Alternate-Fueled Vehicles

10.01 Applicability

Alternate-fueled vehicles are not part of this test group.



11 Auxiliary Emissions Control Devices

11.01 AECD Document

Please refer to Section 16 Confidential Information.



12 Vehicles Covered by Certificate

12.01 Vehicle Information & Test Parameters

Additional vehicle information can be found in Section 7 Test Results.

	Vehicle 1 (EDV)	Vehicle 2
Vehicle Identification Text:	C178E15DETC-Z2761	
Actual Test Vehicle Make Text:	Mercedes-Benz	
Actual Test Vehicle Model Text:	CLA 220	
Carline Class:	Compact Cars	
Evaporative Refueling Family Name:	VMBXR0110LNA	
Drive Source Details 1		
Drive Source Identifier:	C	
Fuel Identifier:	G	
Drive Source Details 2		
Drive Source Identifier:	E	
Fuel Identifier:	EL	
Fuel Cell Indicator:	N	
Rechargeable Energy Storage System Indicator:	Y	
Rechargeable Energy Storage Device Identifier:	B	
Off Board Charge Capability Indicator:	N	
Test Drive Code:	F	
Shift Indicator Light Usage Identifier:	1	
Aged Component Usage Identifier:	4	
Odometer Correction Details		
Correction Initial Value:	24	
Correction Factor Value:	0.9997	
Correction Sign Identifier:	-	
Correction Units Code:	M	
Engine Code Text:	M252-15DETC	
Engine Rated Horsepower Value:	188	
Engine Displacement Value:	1499	
Air Aspiration Details		
Air Aspiration Method Identifier:	TC	
Air Aspiration Device Count:	1	
Air Aspiration Configuration Identifier:	N	
Charge Air Cooler Identifier:	L	
Emissions Control Device Comments Text:		
Transmission Specifications Details		
Light Duty Transmission Type Identifier:	A	
Transmission Lock up Indicator:	Y	
Transmission Creeper Gear Indicator:	N	
Transmission Gear Count:	8	
HYBRID Vehicle Indicator	Y	
⁽¹⁾ Vehicle Specifications Details		
Vehicle Class (EPA):	LDV	
Vehicle Class (CARB):	PC	



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Curb Weight Value:	3693	
Equivalent Test Weight Value:	4000	
Gross Vehicle Weight Rating Value:	4707	
Adjusted Loaded Vehicle Weight Value:	4200	
Loaded Vehicle Weight Value:	3993	
Vehicle Subconfigs Details		
Vehicle Configuration Number:	0	
Manufacturer Vehicle Configuration Number:	0	
Tire Description:	Tire 1 (worst case)	
Front:	225/45 R18	
Rear:	225/45 R18	
Total Road Load Horsepower Value:	10.59	
NV Ratio Value:	24.1	
Axle Ratio Value:	2.682	
Test Drive Mode:	Refer to section 16 (CBI)	
Test Procedure Dynamometer Coefficients		
Target Coefficient A Value:	31.02	
Target Coefficient B Value:	0.217	
Target Coefficient C Value:	0.01501	
Vehicle Configuration Number:	0	
Manufacturer Vehicle Configuration Number:	0	
Tire Description:	Tire 2 (Label)	
Front:	225/45 R18	
Rear:	225/45 R18	
Total Road Load Horsepower Value:	10.59	
NV Ratio Value:	24.1	
Axle Ratio Value:	2.682	
Test Drive Mode:	Default	
Test Procedure Dynamometer Coefficients		
Target Coefficient A Value:	31.02	
Target Coefficient B Value:	0.217	
Target Coefficient C Value:	0.01501	
Vehicle Configuration Number:	1	
Manufacturer Vehicle Configuration Number:	1	
Tire Description:	Tire 3	
Front:	225/40 R19	
Rear:	225/40 R19	
Total Road Load Horsepower Value:	9.81	
NV Ratio Value:	24.1	
Axle Ratio Value:	2.682	
Test Drive Mode:	Default	
Test Procedure Dynamometer Coefficients		
Target Coefficient A Value:	25.18	
Target Coefficient B Value:	0.217	
Target Coefficient C Value:	0.01501	

⁽¹⁾ Adjusted to current model year



Please refer to the Common Application for Certification for a comprehensive list of all available tires and road loads.

12.02 Sub-Configuration Range Values

Not applicable for this test group.



13 Sales Volume

13.01 Projected Sales Volume

Please refer to the Common Application for Certification and the CARB E-Cert.

13.02 Projected Conformity with Schedules

Please refer to materials provided with the Compliance Preview Meeting.



14 Request for Certificates

14.01 Request for EPA Certificate of Conformity

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Mercedes-Benz AG | 70546 Stuttgart

Mercedes-Benz

Mr. Daniel Cullen
Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105
USA

Datum/Date
Model Year 2027

Request for Issuance of Certificate of Conformity

Dear Mr. Cullen,

Mercedes-Benz requests that EPA issues a Certificate of Conformity for the test group listed on the cover page of this application.

The applicable test results can be found in Section 7 of this document. Compliance statements can be found in Section 8 of the Common Application for Certification.

Production vehicles which are subject to registration or sale in all fifty states will be, in all material respects, the same as the certification test vehicles. The test group complies with all applicable regulations contained within 40 CFR Part 86 and California Health and Safety Code.

The application is current as of the date of submission.

Mit freundlichen Grüßen/Yours sincerely,

i.V. Paul Skorupskas
VP – US Certification & Regulatory Affairs



14.02 Request for CARB Executive Order

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Mercedes-Benz AG | 70546 Stuttgart

Mercedes-Benz

Mr. Seung Yeon Yang
California Air Resources Board
Emissions Certification & Compliance Division
4001 Iowa Avenue
Riverside, CA 92507
USA

Datum/Date
Model Year 2027

Request for Issuance of Executive Order

Dear Mr. Yang,

Mercedes-Benz requests that CARB issue an Executive Order for the test group listed on the cover page of this application.

The applicable test results can be found in Section 7 of this document. Compliance statements can be found in Section 8 of the Common Application for Certification.

Production vehicles which are subject to registration or sale in the State of California will be, in all material respects, the same as the certification test vehicles. The test group complies with all applicable regulations contained within 40 CFR Part 86 and California Health and Safety Code. The Vehicle Emission Control label complies with the requirements of California Code of Regulations, Title 13, Section 1965.

The application is current as of the date of submission.

Mit freundlichen Grüßen/Yours sincerely,

i.V. Paul Skorupskas
VP – US Certification & Regulatory Affairs

i.A. Tobias Schmelzle
Manager – CARB Liaison & On-Board Diagnostics



14.03 OBD Approval

Please see Section 16 Confidential Information for information regarding the OBD approval.

14.04 EPA Fee Filing Form

Please refer to the attachments for the Fee Filing Forms.

14.05 CARB Fee Filing Form

Please refer to the beginning of this document.



15 Additional Information

15.01 Hybrid System Information

Please refer to Section 7 Test Results and Section 16 Confidential Information.

15.02 Fuel-Fired Heater

There is no applicable fuel-fired heater for this test group.

15.03 Exhaust System Leaks & Repair

Please refer to the Common Application for Certification.

15.04 Battery Monitor & Durability

Not applicable for this test group.



16 Confidential Information (FOI)

(Reserved)



Attachments (FOI)

1	Certification Summary Information (FOI)
2	EPA Fee Filing Form (FOI)



Attachment 1: Certification Summary Information (FOI)

Certification Summary Information Report

Manufacturer	Mercedes Benz	Manufacturer Code	MBX
Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	07/22/2026 03:47:08 AM
Model Year	2027		

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
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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
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	VMBXHHGNNB12	Durability Group Equivalency Factor	0.8
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?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VMBXV01.5HY1
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	E-26-081		
Mfr Test Group Comments	Interim Tier 4 Test Group ; Sales: Federal = Nationwide (50 states) / CA = CA + 177 States ; Test Group qualifies for MPG-Approach (Derived 5-Cycles): City Litmus Threshold: 26.3 mpg , City FE 29.4 mpg PASS / HWY Litmus Threshold: 35.4 mpg , HWY FE: 40.8 mpg PASS		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	05/19/2026 07:14:46 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)	105	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
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	HC scrubber integrated in primary canister; BETP: VMBX10094068						
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				
VMBXR0110LNA-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	240 - CLA 220	Federal	2-Wheel Drive, Front	Automated Manual	8	Yes
Mercedes Benz	1 - Mercedes-Benz	240 - CLA 220	California + CAA Section 177 states	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		

Certification Summary Information Report

Test Group		VMBXV01.5HY1		Evaporative/Refueling Family		VMBXR0110LNA					
After Treatment Device(s) (ATD)											
ATD Number		ATD Type		ATD Precious Metal		Substrate Material		Substrate Construction			
1		Three-way catalyst		Platinum + Palladium + Rhodium		Ceramic		Monolith			
2		Three-way catalyst		Platinum + Palladium + Rhodium		Ceramic		Monolith			
3		Other		No Coating		Ceramic		Monolith			
Mfr After Treatment Device (ATD) Comments		ATD #3: GPF									
Direct Ozone Reduction (DOR) Device		Not Equipped									
Mfr Emission Control Device Comments		--									
Engine Configuration Number 1											
Engine Displacement (liters)		1.5		Engine Rated Horsepower		188					
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?		No									
Variable Valve Lift System Description		--									
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
Electricity	VMBX10094078	VMBX10094081	VMBX10094080	VMBX10094082	VMBX10094079	--	--	--	--	--	--
Gasoline	VMBX10094078	VMBX10094081	VMBX10094080	VMBX10094082	VMBX10094079	27.5	25.6	42.3	35.5	--	--

Certification Summary Information Report

Test Group		VMBXV01.5HY1		Evaporative/Refueling Family		VMBXR0110LNA	
SFTP LEV-III Official Test Numbers							
Test Group Fuel		FTP		US06		SC03	
Gasoline		VMBX10094078		VMBX10094081		VMBX10094080	
Electricity		VMBX10094078		VMBX10094081		VMBX10094080	
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		29.5	
Battery Specific Energy		57.3		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		Front Wheels		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		22	
Mfr Fuel Cell Description		--					
Fuel Cell On-Board H2 Storage Capacity (kg)		--		Usable H2 Fill Capacity (kg)		--	
Mfr Hybrid Electric/ Electric Vehicle Comments		--					

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA									
Emission Data Vehicle Information												
Vehicle ID / Configuration	C178E15DETC-Z2705 / 0	Manufacturer Vehicle Configuration Number	0									
Original Test Group Name	VMBXV01.5HY1	Original Evaporative/Refueling Family	VMBXR0110LNA									
Original Test Vehicle Model Year	2027											
Vehicle Model												
Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	CLA 220									
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	23	Odometer Correction Factor	0.9876									
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles											
Odometer Correction Units	Miles											
Engine Code	M252-15DETC	Rated Horsepower	188									
Displacement (liters)	1.499											
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)	3693	Equivalent Test Weight (pounds)	4000									
GVWR (lbs)	4707	N/V Ratio	24.1									
Axle Ratio	2.68											
Transmission Type	Automatic	# of Transmission Gears	8									
Transmission Lockup	Yes	Creep Gear	No									

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
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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	25.18	0.217	0.01501	15.73	-0.00082	0.015984	9.8
US06	25.18	0.217	0.01501	15.73	-0.00082	0.015984	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments 225/40 R19; Evap certification car

Test #	VMBX10094019	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	VMBX10094017	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/02/2026	Fuel	Gasoline
Fuel Batch ID	D27R00	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	3393	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2986	--

Manufacturer Test Comments 3-Day; Hot Soak: 0.0954 g OMHCE; Highest Diurnal: 0.2032 g OMHCE after 24 hrs

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	0.2986	0.000	0.299	0.350	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2986	0.000	0.299	0.350	Pass

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX10094042	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	VMBX10094040	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/24/2026	Fuel	Gasoline
Fuel Batch ID	D27R00	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	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3528	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2493	--

Manufacturer Test Comments

2Day EVAP Test. Hot Soak: 0.0485 g HC-Total-Equiv. First 24 hrs result: 0.2008 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	0.2493	0.000	0.249	0.350	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.2493	0.000	0.249	0.350	Pass

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX10094018	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	VMBX10094017	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	04/02/2026	Fuel	Gasoline
Fuel Batch ID	D27R00	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	3376	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0003	--

Manufacturer Test Comments

Running Loss; 225/40 R19

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA						
Test #	VMBX10094034	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	VMBX10094033	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	04/15/2026	Fuel	Gasoline						
Fuel Batch ID	D27R00	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	3477	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	--						
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>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0.01422</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	OMHCE (Organic material Hydrocarbon Equivalent)	0.01422	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
OMHCE (Organic material Hydrocarbon Equivalent)	0.01422	--							
Manufacturer Test Comments ORVR									
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	0.014	0.016	0.03	0.20	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.014	0.016	0.03	0.20	Pass	

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX10094068	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	47 - CARB LEV3 E10 Premium
Test Date	12/06/2024	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	3000	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	--	Road Speed Fan Usage	--

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value
HC-TOTAL (Total Hydrocarbon)	0.0188	--

Manufacturer Test Comments

BETP conducted at the EVAP canister supplier SumiRiko in Chivasso, Italy. Sample C2736B (ID 5bw). Three different samples have been tested with test results btw. 13.3 - 18.8 mg HC. Vehicle data and test lab name are just dummy values

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	0.0188	0.000	0.019	0.020	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0188	0.000	0.019	0.020	Pass

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
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Emission Data Vehicle Information

Vehicle ID / Configuration	C178E15DETC-Z2761 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	VMBXV01.5HY1	Original Evaporative/Refueling Family	VMBXR0110LNA
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	CLA 220
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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	24	Odometer Correction Factor	0.9997
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	M252-15DETC	Rated Horsepower	188
Displacement (liters)	1.499		
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)	3693	Equivalent Test Weight (pounds)	4000
GVWR (lbs)	4707	N/V Ratio	24.1
Axle Ratio	2.68		
Transmission Type	Automatic	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group		VMBXV01.5HY1			Evaporative/Refueling Family		VMBXR0110LNA	
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	31.02	0.217	0.01501	15.91	-0.1371	0.018504	10.6	
Cold CO	34.12	0.2387	0.01651	16.15	-0.1309	0.018437	N/A	
US06	31.02	0.217	0.01501	15.91	-0.1371	0.018504	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		225/45 R18						

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX10094078	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	04/09/2026	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	5678	Odometer Units	M
4WD Test Dyno	No	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	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.904	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.596	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	297.4461621	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.2387054	--	
FE BAG 1 (Bag 1 Fuel Economy)	29.1959713	29.1959713	
CH4 BAG 1 (Bag 1 Methane)	0.0038749	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0212131	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-316.3781	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.864	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	260.6522086	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.008143	--	
FE BAG 2 (Bag 2 Fuel Economy)	33.3645144	33.3645144	
CH4 BAG 2 (Bag 2 Methane)	0.0003375	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0023332	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	23.4552	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.588	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	216.1673764	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0226472	--	
FE BAG 3 (Bag 3 Fuel Economy)	40.2259723	40.2259723	
CH4 BAG 3 (Bag 3 Methane)	0.0012695	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0.0007451	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	6.3924	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.857	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	242.0946879	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0.0025912	--	
FE BAG 4 (Bag 4 Fuel Economy)	35.92333	35.92333	
CH4 BAG 4 (Bag 4 Methane)	0.0001455	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0.0020067	--	
WATT-HRS BAG 4 (Bag 4 Watt Hours)	97.9062	--	
METHANE (CH4 - Methane)	0.00127	--	
CO (Carbon Monoxide)	0.0582739	--	

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
	DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.0583	--
	DT-EER (Drive Trace Energy Economy Rating)	1.2317	--
	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.0128	--
	MFR FE (Manufacturer Fuel Economy)	34.6931699	34.6931699
	NOX (Nitrogen Oxide)	0.0060841	--
	N2O (Nitrous Oxide)	0.0004977	--
	HC-NM (Non-methane Hydrocarbon)	0.005176	--
	NMOG (Non-methane organic gases)	0.0056909	--
	PM (Particulate Matter)	0.0000218	--
	HC-TOTAL (Total Hydrocarbon)	0.0063377	--
	WATT-HRS (Watt Hours)	-188.6243	--
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	999	251	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	250.5783791	--	
Manufacturer Test Comments	225/45 R18		

Certification Summary Information Report

Test Group		VMBXV01.5HY1			Evaporative/Refueling Family					VMBXR0110LNA		
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	251	--	--	--	0.0178	--	251	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0013	--	--	--	0.0010	--	0.002	0.030	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	N2O	0.0005	--	--	--	0.0000	--	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.06	--	--	--	0.01	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO-COMP	0.04	--	--	--	--	--	0.0	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0057	--	1.10	--	0.0000	--	0.006	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0118	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX-COMP	0.0135	--	--	--	--	--	0.014	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0061	--	--	--	0.0000	--	0.006	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	PM	0.0000	--	--	--	0.0004	--	0.000	0.003	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	251	--	--	--	0.0178	--	251	--	--
CA	120,000 miles	California LEV-III SULEV30	METHANE	0.0013	--	--	--	0.0010	--	0.002	0.030	Pass
CA	120,000 miles	California LEV-III SULEV30	N2O	0.0005	--	--	--	0.0000	--	0.000	0.010	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.06	--	--	--	0.01	--	0.1	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.04	--	--	--	--	--	0.0	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0057	--	1.10	--	0.0000	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0118	--	--	--	--	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0135	--	--	--	--	--	0.014	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0061	--	--	--	0.0000	--	0.006	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0000	--	--	--	0.0004	--	0.000	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	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX10094082	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	29 - Cold CO E10 Premium Gasoline (Tier 3)
Test Date	05/01/2026	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	5853	Odometer Units	M
4WD Test Dyno	No	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	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	11.03	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.589	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	334.31	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.2706	--	
FE BAG 1 (Bag 1 Fuel Economy)	25.72	25.72	
CH4 BAG 1 (Bag 1 Methane)	0.0081	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.04125	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-123.5779	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.855	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	307.61	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0022	--	
FE BAG 2 (Bag 2 Fuel Economy)	27.99	27.99	
CH4 BAG 2 (Bag 2 Methane)	0.0006	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0001	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	43.158	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.586	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	262.06	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0499	--	
FE BAG 3 (Bag 3 Fuel Economy)	32.85	32.85	
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)	-115.3679	--	
METHANE (CH4 - Methane)	0.0023	--	
CO (Carbon Monoxide)	0.071	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.15	--	
DT-EER (Drive Trace Energy Economy Rating)	0.38	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.82	--	
MFR FE (Manufacturer Fuel Economy)	28.63	28.63	
NOX (Nitrogen Oxide)	0.0228	--	
N2O (Nitrous Oxide)	0.0008	--	
HC-NM (Non-methane Hydrocarbon)	0.0078	--	

Certification Summary Information Report

Test Group		VMBXV01.5HY1			Evaporative/Refueling Family				VMBXR0110LNA			
		NMOG (Non-methane organic gases)		0.00858		--						
		HC-TOTAL (Total Hydrocarbon)		0.01		--						
		WATT-HRS (Watt Hours)		-195.7879		--						
		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		300.63		--						
Manufacturer Test Comments		225/45 R18										
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	0.07	--	--	--	0.01	--	0.1	10.0	Pass
Fed	120,000 miles	Federal Tier 3 Bin 30	HC-NM	0.0078	--	--	--	0.0000	--	0.008	0.100	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.07	--	--	--	0.00	--	0.1	10.0	Pass

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX91006830	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/03/2026	Fuel	Gasoline
Fuel Batch ID	29351	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6213	Odometer Units	M
4WD Test Dyno	No	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	VMBOX01.5HY1	Evaporative/Refueling Family	VMBOX0110LNA
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	14.8296449	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	3.5741271	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	264.2251557	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.2565769	--	
FE BAG 1 (Bag 1 Fuel Economy)	33.6709248	--	
CH4 BAG 1 (Bag 1 Methane)	0.0052142	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0165873	--	
HC-TOTAL BAG 1 (Bag 1 Total Hydrocarbon)	0.0209553	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-168.36	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	3.8394526	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	223.0900012	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0	--	
FE BAG 2 (Bag 2 Fuel Economy)	39.9499051	--	
CH4 BAG 2 (Bag 2 Methane)	0.0006425	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0001584	--	
HC-TOTAL BAG 2 (Bag 2 Total Hydrocarbon)	0.0007691	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	52.035	--	
ACT-DISTANCE BAG 3 (Bag 3 Actual Distance)	3.5741277	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	222.0345451	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.0039449	--	
FE BAG 3 (Bag 3 Fuel Economy)	40.1384507	--	
CH4 BAG 3 (Bag 3 Methane)	0.0013468	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
HC-TOTAL BAG 3 (Bag 3 Total Hydrocarbon)	0.001192	--	
WATT-HRS BAG 3 (Bag 3 Watt Hours)	-104.608	--	
ACT-DISTANCE BAG 4 (Bag 4 Actual Distance)	3.8419373	--	
CO2 BAG 4 (Bag 4 Carbon Dioxide)	222.7085867	--	
CO BAG 4 (Bag 4 Carbon Monoxide)	0	--	
FE BAG 4 (Bag 4 Fuel Economy)	40.018409	--	
CH4 BAG 4 (Bag 4 Methane)	0.0008669	--	
NMOG BAG 4 (Bag 4 Non-methane organic gases)	0	--	

Certification Summary Information Report

Test Group		VMBXV01.5HY1		Evaporative/Refueling Family		VMBXR0110LNA						
		HC-TOTAL BAG 4 (Bag 4 Total Hydrocarbon)	0.0006287			--						
		WATT-HRS BAG 4 (Bag 4 Watt Hours)	196.263			--						
		METHANE (CH4 - Methane)	0.00185			--						
		CO (Carbon Monoxide)	0.0542735			--						
		DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.0649519			--						
		DT-EER (Drive Trace Energy Economy Rating)	-0.4842845			--						
		DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.363922			--						
		MFR FE (Manufacturer Fuel Economy)	38.5296065			--						
		NOX (Nitrogen Oxide)	0.0112109			--						
		HC-NM (Non-methane Hydrocarbon)	0.0033403			--						
		NMOG (Non-methane organic gases)	0.0034739			--						
		HC-TOTAL (Total Hydrocarbon)	0.0050285			--						
		WATT-HRS (Watt Hours)	-24.67			--						
		Test Result Name	Unrounded Test Result			Verify Calculated CREE/OPT-CREE						
		Carbon-Related Exhaust Emissions	9999.9999999			231						
		Test Result Name	Unrounded Test Result			Verify Calculated CO2						
		Carbon dioxide	231.2149675			--						
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Bin 30	CREE	231	--	--	--	0.0178	--	231	--	--
Fed	120,000 miles	Federal Tier 3 Bin 30	METHANE	0.0018	--	--	--	0.0010	--	0.003	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	CO	0.05	--	--	--	0.01	--	0.1	1.0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0035	--	1.1	--	0.0000	--	0.004	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0147	--	--	--	--	--	0.015	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0112	--	--	--	0.0000	--	0.011	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	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX10094079	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	04/09/2026	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	5693	Odometer Units	M
4WD Test Dyno	No	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))	10.265	--
METHANE (CH4 - Methane)	0.0001089	--
CO (Carbon Monoxide)	0.0012226	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.2248	--
DT-EER (Drive Trace Energy Economy Rating)	0.8639	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.5104	--
MFR FE (Manufacturer Fuel Economy)	54.570793	54.570793
NOX (Nitrogen Oxide)	0.0016078	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0000437	--
NMOG (Non-methane organic gases)	0.000045	--
PM (Particulate Matter)	0.0000702	--
HC-TOTAL (Total Hydrocarbon)	0.0001433	--
WATT-HRS (Watt Hours)	-3.4227	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	999	159

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	159.3723311	--

Manufacturer Test Comments 225/45 R18

Certification Summary Information Report

Test Group		VMBXV01.5HY1			Evaporative/Refueling Family					VMBXR0110LNA		
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	159	--	--	--	0.0178	--	159	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	1.03	--	0.0000	--	0.000	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0016	--	--	--	--	--	0.002	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0016	--	--	--	0.0000	--	0.002	99.999	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	159	--	--	--	0.0178	--	159	--	--
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0000	--	1.03	--	0.0000	--	0.000	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0016	--	--	--	--	--	0.002	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0016	--	--	--	0.0000	--	0.002	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	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX91006831	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	06/03/2026	Fuel	Gasoline
Fuel Batch ID	29351	Fuel Calibration Number	1
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6228	Odometer Units	M
4WD Test Dyno	No	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))	10.2327408	--	
METHANE (CH4 - Methane)	0.0003495	--	
CO (Carbon Monoxide)	0	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.4102485	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.2756474	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.0385127	--	
MFR FE (Manufacturer Fuel Economy)	57.6721406	--	
NOX (Nitrogen Oxide)	0.0020333	--	
NMOG (Non-methane organic gases)	0	--	
HC-TOTAL (Total Hydrocarbon)	0.0003213	--	
WATT-HRS (Watt Hours)	-12.815	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	9999.9999999	154	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	154.5367201	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VMBXV01.5HY1				Evaporative/Refueling Family				VMBXR0110LNA		
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	154	--	--	--	0.0178	--	154	--	--
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG	0.0000	--	1.03	--	0.0000	--	0.000	99.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NMOG+NOX	0.0020	--	--	--	--	--	0.002	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 30	NOX	0.0020	--	--	--	0.0000	--	0.002	99.999	Pass
CA	120,000 miles	California LEV-III SULEV30	CREE	154	--	--	--	0.0178	--	154	--	--
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0000	--	1.03	--	0.0000	--	0.000	99.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0020	--	--	--	--	--	0.002	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0020	--	--	--	0.0000	--	0.002	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	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX10094081	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	04/09/2026	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	5716	Odometer Units	M
4WD Test Dyno	No	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	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
ACT-DISTANCE (Actual Distance Driven (miles))	8.03	--	
ACT-DISTANCE BAG 1 (Bag 1 Actual Distance)	1.791	--	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	359.5326815	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	0.0466905	--	
FE BAG 1 (Bag 1 Fuel Economy)	24.1807945	24.1807945	
CH4 BAG 1 (Bag 1 Methane)	0.0050222	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0183099	--	
WATT-HRS BAG 1 (Bag 1 Watt Hours)	-95.3419	--	
ACT-DISTANCE BAG 2 (Bag 2 Actual Distance)	6.239	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	186.1328138	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.0251588	--	
FE BAG 2 (Bag 2 Fuel Economy)	46.7110889	46.7110889	
CH4 BAG 2 (Bag 2 Methane)	0.001546	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0050041	--	
WATT-HRS BAG 2 (Bag 2 Watt Hours)	97.669	--	
METHANE (CH4 - Methane)	0.0023211	--	
CO (Carbon Monoxide)	0.0299601	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.3722	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.8795	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.3145	--	
MFR FE (Manufacturer Fuel Economy)	38.6754846	38.6754846	
NOX (Nitrogen Oxide)	0.0097551	--	
N2O (Nitrous Oxide)	0.0006301	--	
HC-NM (Non-methane Hydrocarbon)	0.007739	--	
NMOG (Non-methane organic gases)	0.0079712	--	
PM (Particulate Matter)	0.0002366	--	
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0174942	--	
HC-TOTAL (Total Hydrocarbon)	0.0098623	--	
WATT-HRS (Watt Hours)	2.3271	--	

Certification Summary Information Report

Test Group		VMBXV01.5HY1				Evaporative/Refueling Family				VMBXR0110LNA		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		224.7993476			--					
Manufacturer Test Comments		225/45 R18										
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	0.0002	--	--	--	0.0004	--	0.001	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0002	--	--	--	0.0004	--	0.001	0.006	Pass

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Test #	VMBX10094080	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	04/22/2026	Fuel	N/A
Fuel Batch ID	U26R14	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	5759	Odometer Units	M
4WD Test Dyno	No	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))	3.584	--
METHANE (CH4 - Methane)	0.0006327	--
CO (Carbon Monoxide)	0.0013803	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.7008	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6791	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.7238	--
MFR FE (Manufacturer Fuel Economy)	31.4898818	31.4898818
NOX (Nitrogen Oxide)	0.0119288	--
N2O (Nitrous Oxide)	0.0000699	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--
PM (Particulate Matter)	0.000101	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0119288	--
HC-TOTAL (Total Hydrocarbon)	0.0002532	--
WATT-HRS (Watt Hours)	4.4305	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	276.1874633	--

Manufacturer Test Comments 225/45 R18

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
Fuel Properties			
Fuel Batch ID	D27R00	Fuel Calibration Number	1
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/25/2026
Fuel Batch Calibration Effective Date	04/04/2024	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	0.754
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.24	Fuel Carbon Mass Fraction (E10)	0.827
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
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	29351	Fuel Calibration Number	1
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	05/03/2023
Fuel Batch Calibration Effective Date	05/03/2023	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 (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18439
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.867	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	--

Certification Summary Information Report

Test Group	VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
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		VMBXV01.5HY1			Evaporative/Refueling Family			VMBXR0110LNA	
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			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	--	--	--	--	--	--	0.01	10.0
120,000 miles	HC-NM	--	--	--	--	--	--	0.0000	0.100
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	--	--	--	--	--	--	0.0178	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0010	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010
150,000 miles	CO	--	--	--	--	--	--	0.01	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0000	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0004	0.001

Certification Summary Information Report

Test Group		VMBXV01.5HY1			Evaporative/Refueling Family			VMBXR0110LNA	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 30	
Fuel		Gasoline			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0.0178	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0010	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010
150,000 miles	CO	--	--	--	--	--	--	0.01	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0000	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0004	0.003

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	--	--	--	--	--	--	0.0178	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0000	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999

Certification Summary Information Report

Test Group		VMBXV01.5HY1			Evaporative/Refueling Family			VMBXR0110LNA	
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	--	--	--	--	--	--	0.0178	999
120,000 miles	METHANE	--	--	--	--	--	--	0.0010	0.030
120,000 miles	N2O	--	--	--	--	--	--	0.0000	0.010
150,000 miles	CO	--	--	--	--	--	--	0.01	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	NMOG	--	--	1.10	--	--	--	0.0000	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0000	99.999
150,000 miles	PM	--	--	--	--	--	--	0.0004	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	--	--	--	--	--	--	0.0178	999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0000	99.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	0.0000	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	--	--	--	--	--	--	0.0004	0.006

Certification Summary Information Report

Test Group		VMBXV01.5HY1			Evaporative/Refueling Family			VMBXR0110LNA	
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	--	--	--	--	--	--	0.0004	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	--	--	--	--	--	--	0.00	10.0

Evaporative/Refueling Standards

Evaporative/Refueling Family		VMBXR0110LNA		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	0.016		

Evaporative/Refueling Family		VMBXR0110LNA		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	--	0.350	0.000		

Evaporative/Refueling Family		VMBXR0110LNA		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	--	0.350	0.000		

Certification Summary Information Report

Test Group		VMBXV01.5HY1		Evaporative/Refueling Family		VMBXR0110LNA	
Evaporative/Refueling Family		VMBXR0110LNA		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	--	0.350	0.000		
Evaporative/Refueling Family		VMBXR0110LNA		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	0.000		
Evaporative/Refueling Family		VMBXR0110LNA		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	0.000		
Evaporative/Refueling Family		VMBXR0110LNA		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	0.016		
Evaporative/Refueling Family		VMBXR0110LNA		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	0.000		

Certification Summary Information Report

Test Group		VMBXV01.5HY1		Evaporative/Refueling Family		VMBXR0110LNA	
Evaporative/Refueling Family		VMBXR0110LNA		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	0.000		
Evaporative/Refueling Family		VMBXR0110LNA		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	--	0.350	0.000		

Certification Summary Information Report

Test Group		VMBXV01.5HY1	Evaporative/Refueling Family	VMBXR0110LNA
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		VMBXV01.5HY1	Evaporative/Refueling Family		VMBXR0110LNA
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VMBXV01.5HY1	Evaporative/Refueling Family		VMBXR0110LNA
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VMBXV01.5HY1	Evaporative/Refueling Family		VMBXR0110LNA
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	



Mercedes-Benz AG

U.S. Certification

Attachment 2: EPA Fee Filing Form (FOI)

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 01/14/2026

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

MBX

Manufacturer Name *

Mercedes-Benz USA

Contact Name *

Brandin Benson

Contact Email Address *

brandin.b.benson@mbusa.com

Contact Phone *

5515797969

Calendar Year complete application submitted to EPA *

2026

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

calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group *

VMBXV01.5HY1

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

\$32,317.00

Payment Type *

Offline Wire

Comments

EPA Form Number 3520-29

OMB Control No.2060-0545

Approval expires 7/31/2027

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