

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
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Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Mercedes Benz	1 - Mercedes-Benz	917 - EQS 400 4MATIC (SUV)	Federal	All Wheel Drive	Automatic	1	No
Mercedes Benz	1 - Mercedes-Benz	918 - EQS 550 4MATIC (SUV)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Mercedes Benz	1 - Mercedes-Benz	917 - EQS 400 4MATIC (SUV)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Mercedes Benz	1 - Mercedes-Benz	918 - EQS 550 4MATIC (SUV)	Federal	All Wheel Drive	Automatic	1	No

Engine Description

Hybrid Type	--	Hybrid Description	--
Engine Type	--	Mfr Engine Description	--
Engine Block Arrangement	--	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	--	Oil Viscosity/Classification	
Number of Cylinders/Rotors	--	Mechanically Variable Compression Ratio Indicator	--

After Treatment Device(s) (ATD)

Mfr After Treatment Device (ATD) Comments	--
Direct Ozone Reduction (DOR) Device	--
Mfr Emission Control Device 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		--	--	--	--	--	--	--	--	--	--

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
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	12
Total Voltage of Battery Packs	396	Battery Energy Capacity	308
Battery Specific Energy	171.3	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	Both	Driver Controlled Regenerative Braking	Yes
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	2		
Motor/Generator Type 1	AC 3 Phase permanent magnet	Rated Motor/Generator Power	135
Motor/Generator Type 2	AC 6 Phase permanent magnet	Rated Motor/Generator Power	265
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	EQS 400 4MATIC (SUV): AC 3 Phase permanent magnet = 88 KW/ AC 6 Phase permanent magnet = 178 KW, EQS 550 4MATIC (SUV): AC 3 Phase permanent magnet = 135 KW/ AC 6 Phase permanent magnet = 265 KW,		

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Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
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Emission Data Vehicle Information

Vehicle ID / Configuration	X296ed140f245r-Z2484 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	RMBXT00.0ED2	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2024		
Vehicle Model			
Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	EQS 450 4MATIC (SUV)

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

Hybrid Indicator	No		
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	Yes		
Odometer Correction -- Initial	70	Odometer Correction Factor	0.9926
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	PSM140-PSM245	Rated Horsepower	355
Displacement (liters)	0.001		
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	6341	Equivalent Test Weight (pounds)	6500
GVWR (lbs)	7782	N/V Ratio	108
Axle Ratio	1		
Transmission Type	Automatic	# of Transmission Gears	1
Transmission Lockup	Yes	Creeper Gear	No

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	50.58	0.4521	0.01944	9.52	-0.20201	0.023728	16.2
US06	50.58	0.4521	0.01944	9.52	-0.20201	0.023728	N/A

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	----285/40 R22 ---- ZEV configuration / The dyno match was calculated using the fix run method per SAE J2264		
Test #	RMBX10083238	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/27/2023	Fuel	N/A
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	2780	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
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	133.12
Charge Depleting Range (Calculated miles)	450.184	Charge Depleting Range (Actual miles)	450.184
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	450.184
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		417.47	
Carbon Monoxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		1.60638	
Drive Trace Energy Economy Rating		0.75352	
Drive Trace Inertia Work Ratio Rating		2.72432	
Integrated DC KW-HRS		120.084	
Manufacturer Fuel Economy		113.98	
Manufacturer Test Comments	DC energy consumption UDDS1 = 285.6 Wh/mi; UDDS2 = 270.6 Wh/mi; UDDS3 = 262.1 Wh/mi; UDDS4 = 266.6 Wh/mi; UDDS weighted = 266.7 Wh/mi; UDDS1 DC discharge energy = 2119 Wh; MCT UBE energy = 120,084 Wh		

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
Test #	RMBX10083239	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/27/2023	Fuel	N/A
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	2780	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

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	133.12
Charge Depleting Range (Calculated miles)	429.519	Charge Depleting Range (Actual miles)	429.519
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	429.519
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--

Charge Depleting Bag/Phase #1

Test Result/Emission Name	Unrounded Test Result
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	3.75588
Drive Trace Energy Economy Rating	0.47122
Drive Trace Inertia Work Ratio Rating	4.35503
Manufacturer Fuel Economy	108.75
System End State of Charge Watt-hours	0
System Start State of Charge Watt-hours	120.084

Manufacturer Test Comments DC energy consumption HWFE1 = 283.3 Wh/mi; HWFE2 = 275.8 Wh/mi; HWFE average = 279.6 Wh/mi

Certification Summary Information Report

Test Group	VMBXT00.0ED3			Evaporative/Refueling Family			--
Dynamometer Coefficients:							
	Target Coefficients			Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	47.66	0.4521	0.01886	10.43	-0.16898	0.022859	15.7
Cold CO	52.426	0.49731	0.020746	3.118	-0.5622	0.02811	N/A
US06	47.66	0.4521	0.01886	10.43	-0.16898	0.022859	N/A
Emission Control Device Comments	--						
Manufacturer Test Vehicle Comments	-----285/45 R21; FEDV configuration; MCT set coefficients: A=12.27, B=-0.2597, C=0.02417 / The dyno match was calculated using the fix run method per SAE J2264						

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
Test #	RMBX10086496	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/13/2023	Fuel	N/A
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	2371	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

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	133.836
Charge Depleting Range (Calculated miles)	459.01	Charge Depleting Range (Actual miles)	459.01
Charge Depleting Range Highway (Calculated miles)	440.21	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	459.01
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--

Charge Depleting Bag/Phase #1

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.406
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.4998913
Drive Trace Energy Economy Rating	-0.0046698
Drive Trace Inertia Work Ratio Rating	2.189207
Integrated DC KW-HRS	2.0658193
Manufacturer Fuel Economy	27.89502

Charge Depleting Bag/Phase #2

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Charge Depleting Bag/Phase #3																			
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Charge Depleting Bag/Phase #5																			
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Integrated DC KW-HRS	1.9238422																		
Manufacturer Fuel Economy	25.8013986																		
Charge Depleting Bag/Phase #6																			

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Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--																
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Manufacturer Fuel Economy	26.6288469																		
Charge Depleting Bag/Phase #7																			
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Charge Depleting Bag/Phase #8																			
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Manufacturer Test Comments	--																		

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Emission Data Vehicle Information

Vehicle ID / Configuration	X296ed140f245r-Z2485 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	RMBXT00.0ED2	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2024		
Vehicle Model			
Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	EQS 580 4MATIC (SUV)

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

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	Battery(s)		
Off-board charge Capable Indicator	Yes	Odometer Correction Factor	0.9854
Odometer Correction -- Initial	112	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor	
Odometer Correction Sign	Miles		
Odometer Correction Units	Miles	Rated Horsepower	536
Engine Code	PSM140-PSM245	Air Aspiration Method, if 'Other'	
Displacement (liters)	0.001	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	All Wheel Drive
Number of Air Aspiration Devices	--	Aged Emission Components	4,000 (mi)
Charge Air Cooler Type	--	Equivalent Test Weight (pounds)	6500
Shift Indicator Light Usage	Not equipped	N/V Ratio	108
Curb Weight (lbs)	6385	# of Transmission Gears	1
GVWR (lbs)	7782	Creeper Gear	No
Axle Ratio	1		
Transmission Type	Automatic		
Transmission Lockup	Yes		

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	51.03	0.4521	0.01921	9.01	-0.23694	0.023916	16.2
US06	51.03	0.4521	0.01921	9.01	-0.23694	0.023916	N/A

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
Emission Control Device Comments	--		
Manufacturer Test Vehicle Comments	----285/40 R22 ---- ZEV configuration / The dyno match was calculated using the fix run method per SAE J2264		
Test #	RMBX10083240	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/06/2023	Fuel	N/A
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	2040	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
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	135.221
Charge Depleting Range (Calculated miles)	462.852	Charge Depleting Range (Actual miles)	462.852
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	462.852
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		429.232	
Carbon Monoxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.59459	
Drive Trace Energy Economy Rating		0.82338	
Drive Trace Inertia Work Ratio Rating		2.10556	
Integrated DC KW-HRS		121.067	
Manufacturer Fuel Economy		115.37	
Manufacturer Test Comments	DC energy consumption UDDS1 = 275.4 Wh/mi; UDDS2 = 266.2 Wh/mi; UDDS3 = 258.3 Wh/mi; UDDS4 = 259.5 Wh/mi; UDDS weighted = 261.6 Wh/mi; UDDS1 DC discharge energy = 2050 Wh; MCT UBE energy = 121,067 Wh		

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
Test #	RMBX10083241	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	10/06/2023	Fuel	N/A
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	2040	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

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	135.22
Charge Depleting Range (Calculated miles)	440.405	Charge Depleting Range (Actual miles)	440.405
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	440.405
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--

Charge Depleting Bag/Phase #1

Test Result/Emission Name	Unrounded Test Result
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	2.53676
Drive Trace Energy Economy Rating	0.00374
Drive Trace Inertia Work Ratio Rating	3.30808
Manufacturer Fuel Economy	109.77
System End State of Charge Watt-hours	0
System Start State of Charge Watt-hours	121.067

Manufacturer Test Comments DC energy consumption HWFE1 = 279.1 Wh/mi; HWFE2 = 270.7 Wh/mi; HWFE average = 274.9 Wh/mi

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
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Emission Data Vehicle Information

Vehicle ID / Configuration	X296ed140f245r-Z2485 / 1	Manufacturer Vehicle Configuration Number	1
Original Test Group Name	RMBXT00.0ED2	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2024		
Vehicle Model			
Represented Test Vehicle Make	Mercedes-Benz	Represented Test Vehicle Model	EQS 580 4MATIC (SUV)

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

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	Battery(s)		
Off-board charge Capable Indicator	Yes	Odometer Correction Factor	0.9854
Odometer Correction -- Initial	112		
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	PSM140-PSM245	Rated Horsepower	536
Displacement (liters)	0.001	Air Aspiration Method, if 'Other'	
Air Aspiration Method	Naturally Aspirated	Air Aspiration Device Configuration	--
Number of Air Aspiration Devices	--	Drive Mode While Testing	All Wheel Drive
Charge Air Cooler Type	--	Aged Emission Components	4,000 (mi)
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	6500
Curb Weight (lbs)	6385	N/V Ratio	108
GVWR (lbs)	7782		
Axle Ratio	1	# of Transmission Gears	1
Transmission Type	Automatic	Creeper Gear	No
Transmission Lockup	Yes		

Certification Summary Information Report

Test Group		VMBXT00.0ED3			Evaporative/Refueling Family			--
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	48.11	0.4521	0.01862	12	-0.19905	0.022678	15.6	
Cold CO	52.92	0.49731	0.020482	0.57	-0.50494	0.026285	N/A	
US06	48.11	0.4521	0.01862	12	-0.19905	0.022678	N/A	
Emission Control Device Comments	--							
Manufacturer Test Vehicle Comments	-----285/45 R21; FEDV configuration / The dyno match was calculated using the fix run method per SAE J2264							

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
Test #	RMBX10086497	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/05/2023	Fuel	N/A
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	2581	Odometer Units	M
4WD Test Dyno	Yes	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	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	133.732
Charge Depleting Range (Calculated miles)	471.96	Charge Depleting Range (Actual miles)	471.96
Charge Depleting Range Highway (Calculated miles)	449.43	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	471.96
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--

Charge Depleting Bag/Phase #1

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.44
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.1699835
Drive Trace Energy Economy Rating	0.0679885
Drive Trace Inertia Work Ratio Rating	1.6582217
Integrated DC KW-HRS	2.0396188
Manufacturer Fuel Economy	27.414914

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--																
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>10.244</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>1.1699835</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.0679885</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>1.6582217</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.7835398</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>27.17163</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.244	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	1.1699835	Drive Trace Energy Economy Rating	0.0679885	Drive Trace Inertia Work Ratio Rating	1.6582217	Integrated DC KW-HRS	2.7835398	Manufacturer Fuel Economy	27.17163
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Manufacturer Fuel Economy	27.17163																		
Charge Depleting Bag/Phase #3																			
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Manufacturer Fuel Economy	25.989959																		
Charge Depleting Bag/Phase #4																			
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Charge Depleting Bag/Phase #5																			
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Integrated DC KW-HRS	1.8602292																		
Manufacturer Fuel Economy	25.03338																		
Charge Depleting Bag/Phase #6																			

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--																
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Charge Depleting Bag/Phase #7																			
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Integrated DC KW-HRS	19.1895571																		
Manufacturer Fuel Economy	32.9585004																		
Manufacturer Test Comments	--																		
Fuel Properties																			

Certification Summary Information Report

Test Group		VMBXT00.0ED3			Evaporative/Refueling Family			--		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV		
Fuel		Electricity			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	0	
150,000 miles	CO	--	--	--	--	--	--	0	0.0	
Cert Region										
Cert Region		Federal			Cert/In-Use Code			Both		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 4 Bin 0		
Fuel		Electricity			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	0	
150,000 miles	CO	--	--	--	--	--	--	0	0.0	

Certification Summary Information Report

Test Group	VMBXT00.0ED3	Evaporative/Refueling Family	--
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		VMBXT00.0ED3	Evaporative/Refueling Family		--
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	VMBXT00.0ED3	Evaporative/Refueling Family	--
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	VMBXT00.0ED3	Evaporative/Refueling Family		--
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	