

Certification Summary Information Report

Manufacturer	Lucid USA, Inc.	Manufacturer Code	LMU
Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--
Certificate Number	VLMUV00.0ZA2-004	CARB Executive Order #	--
Certificate Issue Date	08/04/2026	Certificate Revision Date	--
Certificate Effective Date	08/04/2026	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	07/31/2026 07:16:24 PM
Model Year	2027		

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	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VLMUEEVNNZA2	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	08/10/2026	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VLMUV00.0ZA2
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	--		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--
Models Covered by this Certificate			
Carline Manufacturer	Division	Carline	Certification Region Code(s)
Lucid USA, Inc.	2 - Lucid USA Inc.	19 - Air G Touring XR AWD w/21" wheels	California + CAA Section 177 states
Lucid USA, Inc.	2 - Lucid USA Inc.	21 - Air Touring AWD w/20" wheels	Federal
Lucid USA, Inc.	2 - Lucid USA Inc.	17 - Air G Touring XR AWD w/19" wheels	Federal
Lucid USA, Inc.	2 - Lucid USA Inc.	22 - Air Touring AWD w/21" wheels	Federal
Lucid USA, Inc.	2 - Lucid USA Inc.	21 - Air Touring AWD w/20" wheels	California + CAA Section 177 states
Lucid USA, Inc.	2 - Lucid USA Inc.	18 - Air G Touring XR AWD w/20" wheels	Federal
Lucid USA, Inc.	2 - Lucid USA Inc.	17 - Air G Touring XR AWD w/19" wheels	California + CAA Section 177 states
Lucid USA, Inc.	2 - Lucid USA Inc.	20 - Air Touring AWD w/19" wheels	Federal
Lucid USA, Inc.	2 - Lucid USA Inc.	20 - Air Touring AWD w/19" wheels	California + CAA Section 177 states
Lucid USA, Inc.	2 - Lucid USA Inc.	22 - Air Touring AWD w/21" wheels	California + CAA Section 177 states
Lucid USA, Inc.	2 - Lucid USA Inc.	19 - Air G Touring XR AWD w/21" wheels	Federal
Lucid USA, Inc.	2 - Lucid USA Inc.	18 - Air G Touring XR AWD w/20" wheels	California + CAA Section 177 states
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	--		

Certification Summary Information Report

Test Group		VLMUV00.0ZA2				Evaporative/Refueling Family		--		
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	--	--	--	--	--	--	--	--	--	--
Official Charge Depleting Test Numbers										
Test Group Fuel		UDDS			Highway					
Electricity		RLMU10084237			RLMU10084236					
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		800				Battery Energy Capacity		147		
Battery Specific Energy		171				Battery Charger Type		Both		
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		Permanent Magnet AC Motor				Rated Motor/Generator Power		433		
Motor/Generator Type 2		Permanent Magnet AC Motor				Rated Motor/Generator Power		178		
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	VLMUV00.0ZA2	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	202403521 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RLMUV00.0ZA2	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	2024	Represented Test Vehicle Model	Lucid Air Grand Touring XR						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
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	1	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	ZA2	Rated Horsepower	819						
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)	5203	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6283	N/V Ratio	85.7						
Axle Ratio	7.06								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--
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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	37.2	0.1059	0.01677	-7.64	-0.0987	0.0151	11.3
Cold CO	40.92	0.1165	0.01558	-20.07	-0.1142	0.01558	N/A
US06	37.2	0.1059	0.01677	-7.64	-0.0987	0.0151	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments --

Test #	RLMU10083142	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	07/29/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	FEV North America Inc. Vehicle Development Center		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2665	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.97	--
DT-EER (Drive Trace Energy Economy Rating)	0.87	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.09	--
MFR FE (Manufacturer Fuel Economy)	999	3.3733734

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0

Manufacturer Test Comments DC energy consumption Phase 1 = 217.3 Wh/mi; Phase 2 = 180.2 Wh/mi; Phase 3 = 203.3 Wh/mi;

Certification Summary Information Report

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--
Test #	RLMU10083143	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	07/29/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	FEV North America Inc. Vehicle Development Center		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2665	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.97	--
DT-EER (Drive Trace Energy Economy Rating)	0.87	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.09	--
MFR FE (Manufacturer Fuel Economy)	999	3.3733734

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0

Manufacturer Test Comments DC energy consumption = 197.62 Wh/mi

Certification Summary Information Report

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--																		
Test #	RLMU10083144	Test Procedure	90 - US06																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	07/29/2023	Fuel	N/A																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	N/A	DF Type	Mfr. Assigned																		
Verify Test Lab ID	FEV North America Inc. Vehicle Development Center																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	7271	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	--																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
Test Results																					
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)</th> </tr> </thead> <tbody> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>0.13</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>0.2</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>0.62</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>999</td> <td>3.3733734</td> </tr> <tr> <td>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</td> <td>999</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.13	--	DT-EER (Drive Trace Energy Economy Rating)	0.2	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.62	--	MFR FE (Manufacturer Fuel Economy)	999	3.3733734	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	999	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)																			
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.13	--																			
DT-EER (Drive Trace Energy Economy Rating)	0.2	--																			
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.62	--																			
MFR FE (Manufacturer Fuel Economy)	999	3.3733734																			
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	999	--																			
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																			
Carbon-Related Exhaust Emissions	0	--																			
Manufacturer Test Comments	DC energy consumption Phase 1 (Highway) = 251.93 Wh/mi; Phase 2 (City) = 272.34 Wh/mi																				

Certification Summary Information Report

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--									
Test #	RLMU10084236	Test Procedure	84 - Charge Depleting Highway									
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity									
Test Date	07/29/2023	Fuel	Electricity									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned									
Verify Test Lab ID	FEV North America Inc. Vehicle Development Center											
E10 Evaporative Test Measurement Method	--											
Test Start Odometer Reading	3959	Odometer Units	M									
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--									
State of Charge Delta	--											
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes									
PHEV/EV Charge Depleting Test Information												
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	134.182									
Charge Depleting Range (Calculated miles)	597.32	Charge Depleting Range (Actual miles)	597.32									
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--									
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	597.32									
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--									
Charge Depleting Bag/Phase #1												
Test Result/Emission Name		Unrounded Test Result										
Actual Distance Driven (miles)		597.32										
Carbon-Related Exhaust Emissions		0										
Drive Trace Absolute Speed Change Rating		0.0029										
Drive Trace Energy Economy Rating		-0.0059										
Drive Trace Inertia Work Ratio Rating		0.0094										
Integrated DC KW-HRS		117.019										
Manufacturer Fuel Economy		999										
Manufacturer Test Comments DC energy consumption HWFE1 = 199.50 Wh/mi; HWFE2 = 192.31 Wh/mi; HWFE average = 195.91 Wh/mi												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	--	1	0	--	--

Certification Summary Information Report

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--									
Test #	RLMU10084237	Test Procedure	81 - Charge Depleting UDDS									
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity									
Test Date	07/29/2023	Fuel	Electricity									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned									
Verify Test Lab ID	FEV North America Inc. Vehicle Development Center											
E10 Evaporative Test Measurement Method	--											
Test Start Odometer Reading	3959	Odometer Units	M									
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--									
State of Charge Delta	--											
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes									
PHEV/EV Charge Depleting Test Information												
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	134.182									
Charge Depleting Range (Calculated miles)	608	Charge Depleting Range (Actual miles)	608									
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--									
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	608									
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)		608										
Carbon-Related Exhaust Emissions		0										
Drive Trace Absolute Speed Change Rating		0.0029										
Drive Trace Energy Economy Rating		-0.0059										
Drive Trace Inertia Work Ratio Rating		0.0094										
Integrated DC KW-HRS		117.019										
Manufacturer Fuel Economy		999										
Manufacturer Test Comments												
DC energy consumption UDDS1 = 206.21 Wh/mi; UDDS2 = 196.76 Wh/mi; UDDS3 = 181.10 Wh/mi; UDDS4 = 185.80 Wh/mi; UDDS weighted = 188.13 Wh/mi; UDDS1 DC discharge energy = 1550.46 Wh; MCT UBE energy = 117.019 kWh . Wh												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	--	1	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	--	1	0	--	--

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--

Certification Summary Information Report

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	202403521 / 1	Manufacturer Vehicle Configuration Number	1						
Original Test Group Name	SLMUV00.0ZA2	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	2025	Represented Test Vehicle Model	Lucid Air Grand Touring XR						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
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	1	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	ZA2	Rated Horsepower	819						
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)	5203	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6283	N/V Ratio	85.7						
Axle Ratio	7.06								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--
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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	37.2	0.1059	0.01677	-7.64	-0.0987	0.0151	11.3
Cold CO	40.92	0.1165	0.01558	-15.48	-0.1568	0.01616	N/A
US06	37.2	0.1059	0.01677	-7.64	-0.0987	0.0151	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments --

Test #	SLMU10086345	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/13/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	FEV North America Inc. Vehicle Development Center		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3744	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.67	--
DT-EER (Drive Trace Energy Economy Rating)	0.1	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.9	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	999	--

Manufacturer Test Comments DC energy consumption = 280.2 Wh/mi

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Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--
Test #	SLMU10086346	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/13/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	FEV North America Inc. Vehicle Development Center		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3744	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	134.182
Charge Depleting Range (Calculated miles)	14.96	Charge Depleting Range (Actual miles)	14.96
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	14.96
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)		3.61	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		0.63	
Drive Trace Energy Economy Rating		0.35	
Drive Trace Inertia Work Ratio Rating		1.67	
Integrated DC KW-HRS		1.311	
Manufacturer Fuel Economy		36.35	
Charge Depleting Bag/Phase #2			

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Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--																
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>3.88</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.74</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.15</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.4</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.174</td></tr><tr><td>Manufacturer Fuel Economy</td><td>30.3</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.88	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.74	Drive Trace Energy Economy Rating	-1.15	Drive Trace Inertia Work Ratio Rating	-0.4	Integrated DC KW-HRS	1.174	Manufacturer Fuel Economy	30.3		
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Manufacturer Fuel Economy	28.43																		
Manufacturer Test Comments	DC energy consumption Phase 1 = 363.55 Wh/mi; Phase 2 = 303.01 Wh/mi; Phase 3 = 307.30 Wh/mi; Phase 4 = 284.33 Wh/mi;																		
Fuel Properties																			

Certification Summary Information Report

Test Group		VLMUV00.0ZA2			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California 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
150,000 miles	CO	--	--	--	--	--	--	--	999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	--	0
150,000 miles	CO-COMP	--	--	--	--	--	1	--	0
150,000 miles	CREE	--	--	--	--	--	1	--	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	--	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 0	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	--	0
150,000 miles	CO-COMP	--	--	--	--	--	1	--	0
150,000 miles	CREE	--	--	--	--	--	1	--	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	--	0

Certification Summary Information Report

Test Group		VLMUV00.0ZA2			Evaporative/Refueling Family			--	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 4 Bin 0	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	--	0
150,000 miles	CO-COMP	--	--	--	--	--	1	--	0
150,000 miles	CREE	--	--	--	--	--	1	--	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	--	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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
150,000 miles	CO	--	--	--	--	--	--	--	999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	1	--	0
150,000 miles	CO-COMP	--	--	--	--	--	1	--	0
150,000 miles	CREE	--	--	--	--	--	1	--	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	1	--	0

Certification Summary Information Report

Test Group		VLMUV00.0ZA2	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		VLMUV00.0ZA2	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		VLMUV00.0ZA2	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		VLMUV00.0ZA2	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	