

Application of Certification – Part 1

2027 Model Year

Test Group: VLMUV00.0ZA2

Durability Group: VLMUEEVNNZA2

Evaporative Families: NA

Test Group description: Battery Electric Vehicle

OBD Group: NA

Carlines covered: Lucid Air Touring AWD w/19" wheels

Lucid Air Touring AWD w/20" wheels

Lucid Air Touring AWD w/21" wheels

Lucid Air Grand Touring XR AWD w/19" wheels

Lucid Air Grand Touring XR AWD w/20" wheels

Lucid Air Grand Touring XR AWD w/21" wheels

Applicable Standards: Federal Tier 4 Bin 0 & California LEV IV – ZEV

EPA Response requested by: July 1st 2026

For application related questions, contact: Nitin Rana

nitinrana@lucidmotors.com

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01.00.00 Communications

01.01.00 Mailing Information

01.01.01 Certification Information

Lucid USA, Inc.
7373 Gateway Blvd
Newark CA 94560

01.01.02 Responsible Official

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Director, Homologation
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02.00.00 Confidential Information

02.01.00 Statement of Confidentiality

According to Class determination 3-78, the following sections in the below listed Applications are determined by Lucid to be kept as confidential.

08.00.00 General technical description

13.00.00 Projected Sales

15.00.00 Fee Filing Details

02.02.00 Test Vehicle Selection

All variants were tested.

03.00.00 Facilities, equipment, and test procedure

03.01.00 Test Procedure

Testing was conducted at a third-party facility – per SAE J1634 procedure (as Revised 2017) Steady State at 65 mph.

03.02.00 Battery Pre-conditioning Procedures

Cell manufacturers cycle the lithium-ion battery cells before they are assembled into battery modules and then battery packs. No further pre-conditioning needed.

04.00.00 (Reserved)

05.00.00 (Reserved)

06.00.00 Maintenance

Will be provided in Owner's Manual

06.01.00 Test Vehicle Scheduled Maintenance

NA

06.02.00 Recommended Customer Maintenance Schedule

Will be provided in Owner's Manual

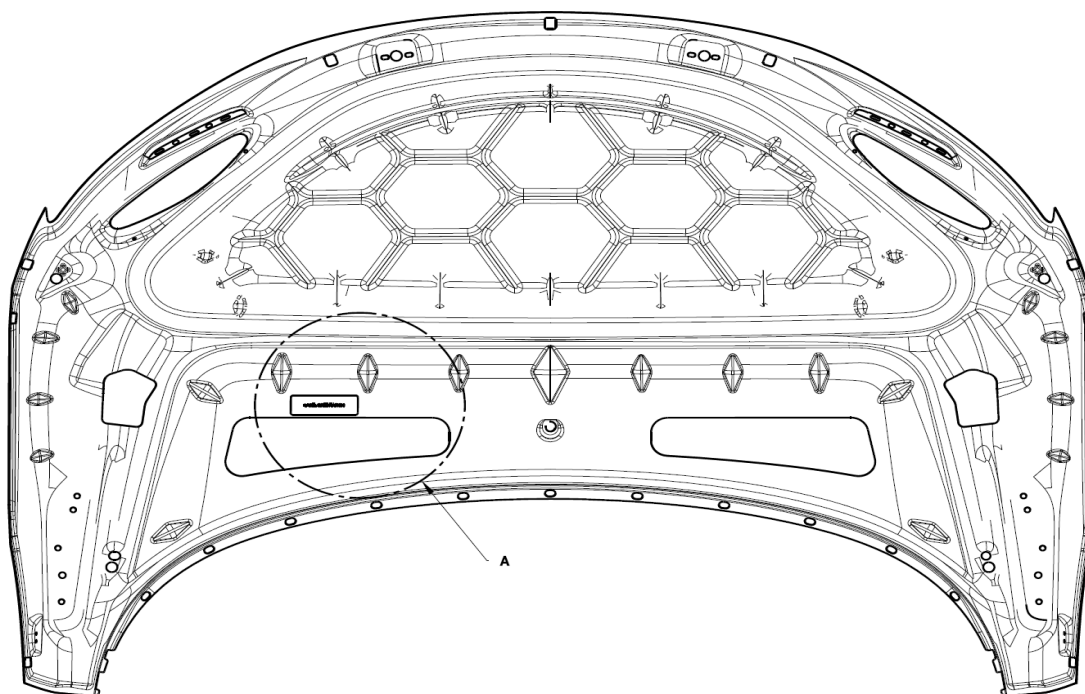
06.03.00 Lubricants and Heater Fuels, if any

Capacity (Front/Rear)	2600 ml/3000 ml
Make	Mobil1
Trade Name	Mobil1 EV Cooldrive 303 (previously known as Mobil 1 LV HP)
Type	Synthetic
Viscosity @ -40C	7770 mPa-s (millipascal-seconds)
Viscosity @ 100C	5.7 cst (centistokes)

07.00.00 Vehicle Emission Control Information (VECI) and Environmental Performance (EP) Labels

07.01.00 VECI & Monroney Label locations

VECI label is located under the frunk.



VECI Label Sample

VEHICLE EMISSION CONTROL INFORMATION / INFORMATIONS SUR LE CONTRÔLE DES ÉMISSIONS DU VÉHICULE		LUCID USA, INC. 
THIS VEHICLE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO 2027 MODEL YEAR NEW TIER 4 BIN 0 LIGHT DUTY VEHICLES AND TO CALIFORNIA REGULATIONS APPLICABLE TO 2027 MODEL YEAR NEW ZEV PASSENGER CARS.		MODEL/MODÈLE: 2027 LUCID AIR MOTOR/MOTEUR: 3 PHASE AC TEST GROUP/GROUPE D'ESSAI: VLMUV00.0ZA2
CE VÉHICULE EST CONFORME AUX NORMES DE L'U.S. EPA APPLICABLES AUX VÉHICULES LÉGERS TIER 4 BIN 0 DE L'ANNÉE 2027 ET AUX NORMES CALIFORNIENNES APPLICABLES AUX VÉHICULES À ZÉRO ÉMISSIONS DE L'ANNÉE-MODÈLE 2027.		LUCID

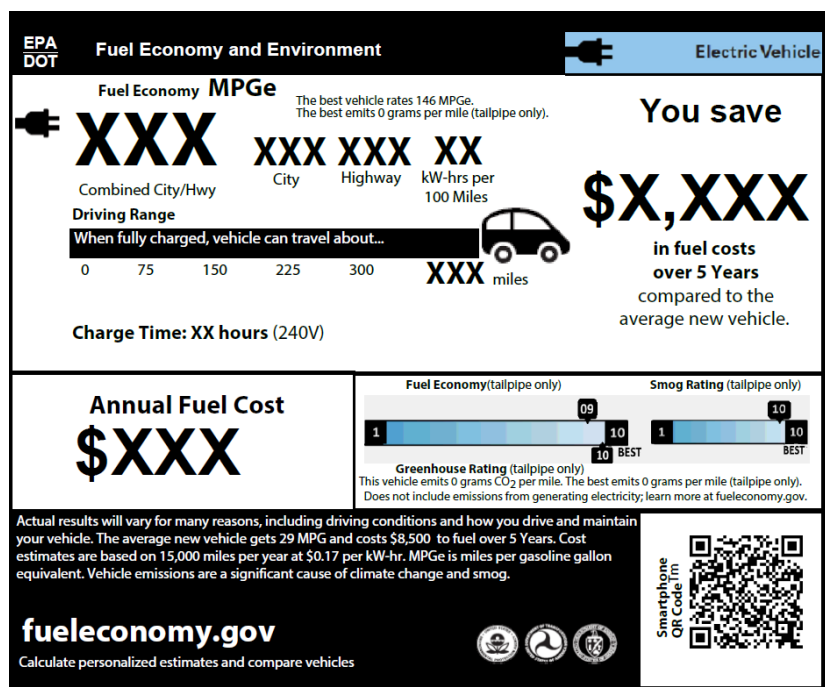
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Monroney Label Location



Monroney Label is located on the left rear window of the vehicle

07.02.00 Sample EP label





07.03.00 Statement of Compliance

All vehicles within the test group conform to US EPA Federal Tier 4 Bin 0 and State of California regulations applicable to 2027 Model Year new ZEV Light- duty vehicles.

08.08.00 Description of Charger

The Lucid Air can charge using various off-board chargers:

- AC Level 1 charging at 1.4kW (120V/12A)
- AC Level 2 charging up to 19.2kW (240V/80A)
- DC fast charging at up to 300kW (depending on trim)

For Level 1 and Level 2 charging, the vehicle is equipped with an on-board charger which allows for up to 80A single-phase AC charging. The vehicle's on-board charger converts the single-phase alternating current from the charger into direct current to recharge the vehicle's HV battery.

The Lucid Mobile Charging Cable Kit allows the Lucid Air to AC charge at residential locations through NEMA 5-15 (Level 1) and NEMA 14-50 (Level 2) outlets. The kit is included with the vehicle purchase. The Lucid Air can charge at up to 1.4kW (12A) when using the NEMA 5-15 adapter and at up to 9.6kW (40A) when using the NEMA 14-50 adapter. The mobile charger includes an electronics system which communicates with the vehicle to manage the charging process and ensure optimal power delivery.

The Lucid Mobile Charging Cable Kit consists of the following components:



1. Charging Connector (Plugs into Vehicle) (J1772)
2. Connector Latch Button
3. Connector Cable (Fixed to Control Unit)
4. NEMA 5-15 Adapter (Removable, Plugs into Wall Outlet)
5. NEMA 14-50 Adapter (Removable, Plugs into Wall Outlet)
6. Mobile Charging Control Unit
7. Status LED Lights

In addition, Lucid offers a more permanent, wall-mounted charging station, available for purchase, which requires a licensed electrician to install. The Lucid Connected Home Charging Station can supply up to 19.2kW (240V/80A) of AC power and is hardwired into the residential supply circuit. The home charger supplies the maximum allowable current determined via the charger's electronics system that communicates with the vehicle to ensure optimal charging power delivery.

The Lucid Air is equipped with a native-J1772 (CCS1) charge port located on the front, driver-side of the vehicle. It is covered with a charge port door which can be opened and closed. The NACS-to-J1772 (AC) and NACS-to-CCS1 (DC) charging adapters are available for purchase

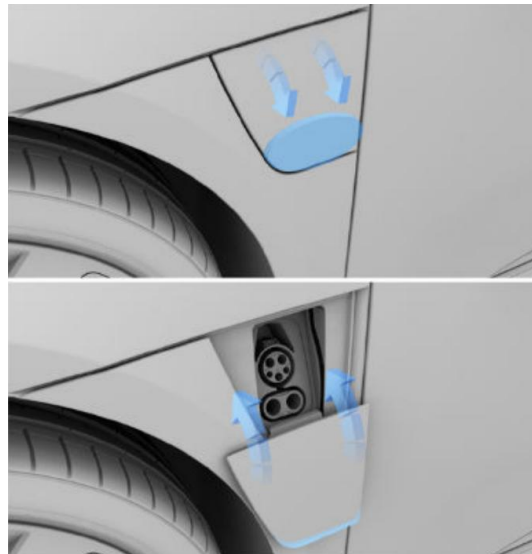
08.08.01 Proper Charging Procedures

Detailed instructions on how to charge the Lucid Air can be found in the owner's manual.

When at the charging location, park the Lucid Air to ensure the cable can easily reach the charge port.

Car doors must be unlocked for the charge port to open. You can open and close the charge port door using any of the following methods:

- Press the  **charge port icon** on the **Left Cockpit Panel**.
- Select  >  **OPENINGS** on the **Pilot Panel** and press the  **charge port icon**.
- Select  >  **CHARGING** on the **Pilot Panel** and press the **OPEN CHARGE PORT** button.
- Use the **Lucid Mobile App**.
- Press the bottom of the charge port door with a valid key fob detected within 6.5 feet (2 m) of the unlocked vehicle, and it will automatically open. The charge port door automatically closes after unplugging the charging cable; otherwise, you can gently push upward on the bottom of the door until automatic closing takes over.



Firmly connect the charge connector from the charger into the vehicle's charge port. Ensure the connector is fully attached in the port.



Charging may begin automatically depending on what charger is being used. If charging does not start automatically, follow the steps provided by the charger.

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During the charging session, progress and status can be checked via the lights on the charge port, the in-vehicle screens, or the Lucid mobile app. The charge port lights indicate as follows:

Color	Definition
White (Solid)	Ready to Charge
White (Flashing)	Charging Pending
Green (Flashing)	Charging in Progress
Green (Solid)	Charging Completed
Red (Solid)	Charging Error

Note: Charging settings such as setting the State-of-Charge (SOC) limit, current limit (for AC charging), and scheduled charging can be accessed via the in-vehicle screens, or the Lucid mobile app.

Charging can be stopped via the button on the charge port, the in-vehicle screens, or the Lucid mobile app.

Once charging is complete, remove the charge connector from the vehicle and return it to the charger.

The charge port door automatically closes after unplugging the charging cable; otherwise, you can gently push upward on the bottom of the door until automatic closing takes over.

Note: In certain extreme climates, the HV battery may be too cold for normal charging to occur. In these scenarios, the vehicle will automatically begin heating the battery to enable charge. Heating will stop or slow when the battery temperature has entered the allowable charging operating range and charging will continue.

08.08.02 Power requirements necessary to recharge vehicle

AC charging: The Lucid Air comes with one on-board charger that is capable of up to 80A (single-phase AC) charging when connected to an appropriate Level 2 AC charger.

DC boost charging (500V): The Lucid Air leverages proprietary boost charging technology using the vehicle's power-electronics to allow for charging at DC fast charge stations which are 500V capable. The vehicle can charge at up to 50kW at these stations.

DC fast charging (1000V): When natively charging on 1000V capable DC fast chargers, the Lucid Air allows for up to 300kW of power (depending on vehicle trim).

08.09.00 Other Unique Features

The Lucid Air supports vehicle-to-vehicle charging (RangeXchange). When using a



RangeXchange adapter, available for purchase, the Lucid Air can charge other electric vehicles. This is an optional feature.

08.10.00 Description of Warning System(s) for Maintenance/Malfunction

The Lucid Air is equipped with an LED bar next to the charging port to advise on issues and/or errors during the charging session, as well as charging progress. Additional details on the specific issues can be found within the owner's manual for the vehicle.

08.10.01 Cut-off terminal voltages for prevention of battery damage

The Battery Management System (BMS) monitors battery pack voltage by way of voltage sensors on each of the battery modules within the pack. It monitors these voltages continually to ensure the safe limits of operation of the battery cells. In the event of other systems in the Powertrain exhibiting a spike in voltage or current, the battery will self-protect by opening contactors and disabling the entire high voltage system in the vehicle.

09.00.00 (Reserved)

10.00.00 (Reserved)

11.00.00 Starting and Shifting Schedules

Starting: The vehicle does not require a key to be turned on or a button to be pressed to start it. If a paired key fob, NFC card or phone is recognized when the driver's door is opened, the Cockpit and Pilot panels will power on indicating the vehicle is ready to operate.

Drive mode: While seating in the driver's seat, press the brake pedal to put the car in Drive mode. The vehicle will search for a recognized keyfob, NFC card or phone. If a known device is detected, the vehicle can start. If no known device is detected, a message will be displayed on the instrument cluster "Keyfob not detected."

The display on the instrument cluster will change to show the Speedometer, Power meter and the PRND display. The indicator lights will briefly illuminate as a system check and then extinguish unless applicable.

The drive mode enabled indicator (telltale) will be displayed on the instrument cluster.

Selecting a Gear:

With the vehicle in Drive mode, move the right steering column lever up or down to select a gear. The instrument cluster will show the currently selected gear.

To select a gear when the vehicle is in P (Park), you must also press the brake pedal.

Note: If you try to select a gear when the current vehicle speed prohibits a gear change, a chime will sound, and a message will be displayed on the instrument cluster.

R (Reverse)

Push the lever up and release to select R. R can only be selected when the vehicle is stationary, or its forward speed is less than 5 mph (8 km/h).

N (Neutral)

Allows the vehicle to roll freely unless the brakes are applied. Push the lever up or down from the currently selected gear and release to select N.

Note: You must apply the brake pedal before D or R can be selected.

D (Drive)

Push the lever down and release to select D. You can only select D when the vehicle is stationary, or its speed is less than 5 mph (8 km/h) in reverse.

P (Park)

When P is selected, the parking brake is automatically applied.

With the vehicle stationary, you should press the end of the gear selector to select P.

Note: P is automatically engaged whenever you connect a charging cable to the charging port. This is to prevent the vehicle being moved while still connected.

Note: If the vehicle is in D or R, P will automatically be selected if you open the driver's door and get up from the driver's seat.

12.00.00 Vehicle Description

Carline	ETW (lbs.)	Tire Sizes	F0 [lbf]	F1 [lbf/(mph h)]	F2 [lbf/(mph)²]	TRL5 0	Axle Ratio
Air Touring w/19" wheels	5250	245/45R19 (F) 245/45R19 (R)	31.63	0.0121	0.01541	9.4	7.06:1
Air Touring w/20" wheels	5250	245/40R20 (F) 265/40R20 (R)	34.37	0.0778	0.01534	10.2	7.06:1
Air Touring w/21" wheels	5250	HL245/35R 21 (F) HL265/35R 21 (R)	35.40	0.1000	0.01628	10.8	7.06:1
Air Grand Touring XR AWD w/19" wheels	5500	245/45R19 (F) 245/45R19 (R)	33.18	0.0175	0.01550	9.7	7.06:1
Air Grand Touring XR AWD w/20" wheels	5500	245/40R20 (F) 265/40R20 (R)	37.32	0.0127	0.01626	10.5	7.06:1
Air Grand Touring XR AWD w/21" wheels	5500	HL245/35R 21 (F) HL265/35R 21 (R)	37.20	0.1059	0.01677	11.3	7.06:1

12.01.00 Motor & Battery Description

Parameter	Air Touring AWD	Air Grand Touring XR AWD
Drive motor Type (Front)	Permanent Magnet AC Motor	Permanent Magnet AC Motor
Drive motor Type (Rear)	Permanent Magnet AC Motor	Permanent Magnet AC Motor
Number of Drive Motor (s)/ Drive Units	2/2	2/2
Rated Motor Power (KW) Front / Rear	129 kW / 333 kW	178 kW / 433 kW
Drive type (AWD/2WD/4WD)	AWD	AWD
Regenerative Braking (Yes/No)	Yes	Yes

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Driver Controlled Regen Braking (Yes/No)	Yes	Yes
Rated Horsepower (hp)	620	819
Number of Battery Modules	18	22
Total number of Cells	5400	6600
Nominal voltage (V)	660	800

13.00.00 (Reserved)

14.00.00 Request for Certificate

Mr. William Ott
Compliance Division Office
of Mobile Sources
U. S. Environmental Protection Agency 2000
Traverwood Drive
Ann Arbor, MI 48105

Subject: Request for Certificate of Conformity – Lucid USA, Inc. 2027 Test Group
VLMUV00.0ZA2

Dear Mr. Ott,

Lucid hereby submits, with this letter, the model year 2027 application for Certificate of Conformity for the following Test Group: VLMUV00.0ZA2

EPA Standard: Tier 4 Bin 0 Federal California
Standard: LEV IV ZEV California

Certification Fee Filing Form Copy of the Certification Fee filing form is added in section 15 of the electronic application.

Lucid believes all vehicles within this test group comply with all applicable regulations and are in accordance with the provisions of 40 CFR 86.

Our final application is included in the electronic application.

Please review this information and reach out if you have any questions regarding the request for a Certificate of Conformity.



Sincerely,

Wulfer De Bruijn

Ms. Robin U. Lang, Chief
Emissions Certification and Compliance Division Air
Resources Board

Dear Ms. Lang:

Subject: Request for Executive Order – Lucid USA, Inc.
2027 Test Group VLMUV00.0ZA2

Lucid USA, Inc. requests that CARB issue an Executive Order for the VLMUV00.0ZA2 test group. Lucid requests that the CARB treat the information contained in this application, or information subsequently submitted for inclusion in this application, as confidential business information pursuant to the California Public Records Act and Sections 91000-91022 of Title 17 of the California Code of Regulations. All vehicles within the test group conform to the State of California regulations applicable to 2027 Model Year new ZEV passenger cars.

The new EPA certificate of conformity for this test group will be submitted to e- FILE when it becomes available.

Please review this information and reach out if you have any questions regarding the request for an executive order.



Sincerely,

Wulfer De Bruijn

15.00.00 (Reserved)

16.00.00 (Reserved)

17.00.00 CALIFORNIA REQUIREMENTS

Statement of Compliance

Lucid states, this Test Group containing All Electric Vehicles in this application, tailpipe emissions of regulated pollutants from which are deemed to be zero with reference to 40 CFR 86.1829-15(f), based on our engineering judgement, comply with all the requirements of 40 CFR Part 86 Subpart S instead of submitting test data as allowed by § 86.1829-01(b)(4) and 40 CFR 86.1829-15(f).

This vehicle conforms to US EPA Federal Tier 4 Bin 0 and State of California regulations applicable to 2027 Model Year new ZEV Light-duty Vehicles.

Test Group: VLMUV00.0ZA2

Information provided in Supplemental Data

Sheet VEHICLE SAFETY

All information related to the safe operation of the vehicle can be found in the Vehicle Owner's Manual Handbook. It will be submitted when it becomes available.

SAFE HANDLING OF BATTERY SYSTEM

Handling

Pack should not be exposed to external abuse such as, but not limited to mechanical compression, puncturing, external short circuit, overcharge or over discharge. They should be kept within normal operating temperature, i.e. -30 to + 60°C.

The pack is protected from external mechanical aggression by a robust casing which is isolated from the High Voltage traction chain. The pack enclosure should not be opened since it would expose live high voltage parts. The cells contained within the pack are hermetically sealed and will not expose electrolyte or electrode material.

Storage

Battery packs should be stored in their packaging or in appropriate racks designed for that purpose. The packs should not be exposed to heat source or direct sunlight for a long period of time. They should also be protected from rain or snowfall by being stored indoors.

Battery crates should not be stacked by more than 2 packages high. To preserve the battery life cycle, storage at SOC higher than 50% and temperature higher than 60°C is not recommended.

Transport

Lithium-ion batteries are regulated as Class 9 Miscellaneous dangerous goods (also known as "hazardous materials") pursuant to the International Civil Aviation Organization. (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air, International Air Transport Association (IATA) Dangerous Goods Regulations, the International Maritime Dangerous Goods (IMDG) Code, European Agreements concerning the International Carriage of Dangerous Goods by Rail (RID) and Road (ADR), and applicable national regulations such as the USA's hazardous materials regulations (see 49 CFR 173.185).

Supplemental Data Sheet

Please refer to e-file and CBI application.

Certification Summary Information Report

Manufacturer	Lucid USA, Inc.	Manufacturer Code	LMU
Test Group	VLMUV00.0ZA2	Evaporative/Refueling Family	--
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
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	VLMUEEVNZA2	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?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
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)
Drive System	Trans - Type	- # of Gears	Trans - Lockup
Lucid USA, Inc.	2 - Lucid USA Inc.	17 - Air G Touring XR AWD w/19" wheels	California + CAA Section 177 states
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	21 - Air Touring AWD w/20" wheels	California + CAA Section 177 states
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	20 - Air Touring AWD w/19" wheels	Federal
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	18 - Air G Touring XR AWD w/20" wheels	Federal
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	19 - Air G Touring XR AWD w/21" wheels	California + CAA Section 177 states
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	21 - Air Touring AWD w/20" wheels	Federal
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	17 - Air G Touring XR AWD w/19" wheels	Federal
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	19 - Air G Touring XR AWD w/21" wheels	Federal
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	22 - Air Touring AWD w/21" wheels	Federal
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	18 - Air G Touring XR AWD w/20" wheels	California + CAA Section 177 states
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	20 - Air Touring AWD w/19" wheels	California + CAA Section 177 states
All Wheel Drive	Automatic	1	No
Lucid USA, Inc.	2 - Lucid USA Inc.	22 - Air Touring AWD w/21" wheels	California + CAA Section 177 states
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	--		

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										
Rechargable Energy Storage System		Battery(s)			Rechargable 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	--																			
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	0	--												
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																				

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																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>597.32</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.0029</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.0059</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>0.0094</td></tr><tr><td>Integrated DC KW-HRS</td><td>117.019</td></tr><tr><td>Manufacturer Fuel Economy</td><td>999</td></tr></table>				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
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	--	--

Certification Summary Information Report

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

Certification Summary Information Report

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			

Certification Summary Information Report

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		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	3.88																		
Carbon-Related Exhaust Emissions	0																		
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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																		
Charge Depleting Bag/Phase #3																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>3.6</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.85</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.48</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.87</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.106</td></tr><tr><td>Manufacturer Fuel Economy</td><td>30.73</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.6	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.85	Drive Trace Energy Economy Rating	-0.48	Drive Trace Inertia Work Ratio Rating	-0.87	Integrated DC KW-HRS	1.106	Manufacturer Fuel Economy	30.73		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	3.6																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	-0.85																		
Drive Trace Energy Economy Rating	-0.48																		
Drive Trace Inertia Work Ratio Rating	-0.87																		
Integrated DC KW-HRS	1.106																		
Manufacturer Fuel Economy	30.73																		
Charge Depleting Bag/Phase #4																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>3.87</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.48</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.26</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.15</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.101</td></tr><tr><td>Manufacturer Fuel Economy</td><td>28.43</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.87	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.48	Drive Trace Energy Economy Rating	-1.26	Drive Trace Inertia Work Ratio Rating	-0.15	Integrated DC KW-HRS	1.101	Manufacturer Fuel Economy	28.43		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	3.87																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	-0.48																		
Drive Trace Energy Economy Rating	-1.26																		
Drive Trace Inertia Work Ratio Rating	-0.15																		
Integrated DC KW-HRS	1.101																		
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		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		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
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

Certification Summary Information Report

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

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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	

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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	

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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	