



WUHAN LOTUS CARS CO., LTD.

APPLICATION FOR CERTIFICATION – PART I

Model Year: 2027

Test Group: VWHNV00.0LEB

Durability Group: VWHNEEVNNLEB

Evaporative Family: Not Applicable

Durability Group Description: Electric Vehicle / BEV / ZEV

Test Group Description: Electric Vehicle / BEV / ZEV

Different test groups based on battery
and Electric motor configuration

Applicable Standards: FEDERAL Tier 4 BIN 0

Carlines Covered: ELETRE S Long range,
ELETRE S Performance

Vehicles Tested: GIC_C10_6100,
GIC_C10_6119

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01. Correspondence and Communication

Refer to Section 16.01 of this Test Group Application.



02. Durability Group Description

Durability Group Name:	VWHNEEVNNLEB
Combustion Cycle:	Electric
Engine Type:	Electric Motor
Fuel Used:	Power Grid Electricity



03. Evaporative / Refueling Family Description

Not applicable. Battery Electric Vehicles.



04. Durability Procedure Description

Not applicable. Battery Electric Vehicles.



05. Test Group Description

Durability Group Name:	VWHNEEVNNLEB
Test Group Name:	VWHNV00.0LEB
Electric Motor Type:	Front: AC, 3 Phase, Synchrony, With Permanent Magnets Rear: AC, 3 Phase, Synchrony, With Permanent Magnets
Electric Motor Size:	Total: 603 HP
Battery Type:	Lithium-ion Battery
Battery Capacity:	158 Ah
Battery rated voltage:	708 V
Vehicle Class	LDV
Federal Emissions Standards Class	Tier 4 BIN 0



06. Test Vehicle Description

06.01. Test Vehicles

Vehicle ID	VIN	Model	Purpose	Tests Performed
GIC_C10_6100	#1024	ELETRE S Long Range	Range/Energy	5-Cycle
GIC_C10_6119	#1069	ELETRE S Performance	Range/Energy	5-Cycle



06.02. Test Parameters, Instruction

Engine Start Operation

- 1) After using the effective key to unlock the car and opening the doors, the instrument cluster and the Center Stack Display (CSD) will light up, and the car will automatically power on.
- 2) If the driver is using the card key to unlock and enter the car, you need to place the card key in the wireless charging induction area. If the brake pedal is depressed and the gear is shifted to R or D position, the car starts in the driving mode.
- 3) After the driver enters the vehicle with the key fob/digital key, the vehicle starts by pressing the brake pedal. If the gear is shifted to R or D position, the car is in driving mode.
- 4) When the vehicle is in drivable mode, the READY indicator on instrument cluster will be illuminated.
- 5) After the vehicle reaches the READY state, you can put the card key in a different location in the vehicle if the phone's wireless charging function is required.
- 6) At conclusion of the driving cycle, set gear selector to P.
- 7) If you have closed all doors (including the bonnet and the tailgate) and are about to leave the car with the key, you can power off the car in the following ways:
 - Lock the car with the key.
 - If the driver door is not opened within 5 minutes, the car will automatically turn off the power.



Transmission Shift Operation

- Flick the gear lever to switch to different gears, while the corresponding gear information is displayed on the instrument cluster.
- Reverse (R): When the vehicle is parked, press the brake pedal, long toggle the gear lever forward and release it, and switch gears to R.
- Neutral (N): When the gear is in D or R, the lever is flicked forward or backwards shortly and the gear switches to N.
- Drive (D): When the vehicle is parked, press the brake pedal, long toggle the gear lever backwards and release it, and switch gears to D.
- Park (P): After the vehicle is parked, press the P button, the gear switches to P gear, and the electronic parking brake is automatically activated.

Selectable mode

All selectable modes to be left in default positions.

Cooling fan

One road-speed fan, centered upright, front of vehicle.

Drive mode:

All models are AWD.



06.03. Battery Charge Procedures

The charging port is located at the front left side of the vehicle, and the charging port cover can be opened or closed in the following ways:

- a) Unlock the vehicle with a valid key, press the outside of the charging port cover, and the cover will open automatically; press the cover closing button or lock the vehicle, and the cover will be closed automatically.



- b) Click the  icon in the CSD, select the integrated charging port cover switch to automatically open or close the cover.





During the charging, the charging status of the car can be known through the following indication:

- Instrument cluster
- Centre Stack Display (CSD)
- Mobile APP
- Charging port indicator

The colors legend is described below:

- White (always on): Indicates that the indicator lamp is illuminated automatically when the charging port cover is opened.
- Green (flash): The charging is normal within a period of time after the charging plug is connected.
- Green: The charge is complete and lasts for 2 minutes.
- Orange (always on): Indicates that the battery preheating function is activated.
- Red: Failure occurred for 2 min during charging.



Charging with charging pile:

- Remove the charging plug from the charging pile, and insert it into the integrated charging port properly, at which point the electronic lock will be enabled automatically.
- Operate according to instructions on the charging pile to start charging the car.



06.04. Voltage and Current Measurement Procedures

These instructions apply to certification vehicles only. Voltage and current analysis on production vehicles can only be accomplished via control unit communications.

How to Install the current clamps in HVB and LVB system

The vehicle is prepared to fit the clamps avoiding the insulate shield current measurement effect.

Total of 4 x Current clamps must be installed: 2 x HVB (front and rear battery outlet) and 2 x LVB outlet.

A HVB disconnect procedure is recommended after lifting the vehicle with a 2-post lift to better access to HVB output cables from the battery, especially in the rear side.

- a) Open front bonnet and rear trunk and cheat both latches.
- b) Open windows and lock the vehicle.
- c) Disconnect HVB service plug located in front engine bay.
- d) Leave the vehicle 5 minutes asleep.
- e) Disconnect 12V Lithium battery located in rear trunk.
- f) Disconnect 12V Lead battery located in rear trunk.
- g) Verify there is no Voltage through the HVB instrumented cable located in the front engine bay.
- h) Install 2 x clamps for LVB. Exact locations are marked on rear trunk and detailed below.





- i) Install 2 x clamps for HVB (front and rear outlet). In case of Zeus e-motor rear configuration, 2 x HVB connectors must be removed before fitting the current clamp.

How to acquire the voltage

The vehicle is prepared with voltage banana plugs to be connected to Hioki power analyzer.

The HVB banana plugs are located inside a sealed bag in the front engine bay.



The LVB banana plugs are located inside a sealed bag under passenger seat footage.





06.05. Description of the Climate Control System

The automatic four-zone A/C control system is automatically controlled according to the pre-set temperature in the vehicle, and the temperature, air volume and air direction of the left front, right front, left rear and right rear climate area in the vehicle can be adjusted separately according to the ambient temperature, interior temperature, sunshine, air quality and window fog.

When setting the climate of individual zone manually, the climate of other zones can still be in auto mode.

The air conditioning compressor not only provides cooling for the passenger compartment, but also cools the battery. Therefore, in hot weather, even if the air conditioning is turned off, the compressor may still be working, which is a normal phenomenon. This is to maintain the battery in an optimal temperature range to ensure longer service life and optimal performance.

Climate control systems use R1234yf refrigerant.



Front climate control interface settings



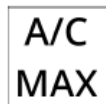
ION switch: click to turn on or off the negative oxygen ion function of the A/C.



Streaming mirror defrosting/defogging switch: click to turn on or off the exterior rear view mirror display defrost/defog function.



A/C switch: click to turn on or off the A/C refrigeration system. In auto mode, the A/C mode is on by default.



A/C MAX switch: after this switch is turned on by clicking, the A/C temperature will be automatically adjusted to the lowest and the A/C air volume will be adjusted to the maximum.



Front windscreen defrost/defog switch: click on or off the maximum defrost/defogging function to quickly remove ice or fog from the front windscreen and side windows.



Four-zone sync switch: after the four-zone sync is activated by clicking, the temperature, air volume, blowing mode and auto mode in the vehicle can be adjusted synchronously from the driver side; after this feature is deactivated, each area can be adjusted separately. This function needs to be manually activated again every time the vehicle is started.



Rear windscreen and outside mirror defrost/defogging switches: click to turn on or off the defrost/defogging functions of rear windscreen and outside mirrors.



Internal circulation switch: click to activate the internal circulation of air in the vehicle.



External circulation switch: click to activate the external circulation of air in the vehicle.



Automatic circulation mode: when the A/C is turned to Auto mode, the internal/external circulation will be automatically activated.



ECO switch: click to turn on or off the economic operation mode of the A/C.



Window blowing mode: air flow blows front windscreen and front side window.



Face blowing mode: when the air outlet is opened, the air flow blows out from the centre and side air outlets, blowing the side faces of the driver and front passenger.



Foot blowing mode: air flow blows to the side feet of the driver and front passenger.



Click "-" or "+" switch on both sides of the fan to adjust the air volume at the corresponding side respectively. Adjust the air volume to reduce or increase by 1 gear, the higher the value, the greater the air volume.



Turn on auto mode and the air volume will be automatically adjusted.



Front A/C system switch: click to turn the front A/C system on or off.



Air quality system: click to view the working status of the air quality system.



Rear climate control interface settings

There is a rear A/C control panel on the center armrest of the rear seat. Some models have a rear A/C control panel in the rear seat center armrest.



Face blowing mode: when the air outlets are opened, the air flow blows out from the centre and side air outlets, blowing the faces of the rear passengers.



Feet blowing mode: air flow blows towards the feet of the rear passengers.



Auto mode: after clicking it on, the A/C system automatically controls the temperature, air volume and air direction according to the temperature you set in the vehicle, and maintains the temperature in the vehicle at the temperature value you set.



Click "-" or "+" switch on both sides of the fan to adjust the air volume at the corresponding side respectively. Adjust the air volume to reduce or increase by 1 gear, the higher the value, the greater the air volume.



Turn on auto mode and the air volume will be automatically adjusted.



Rear A/C system switch: click to turn the rear A/C system on or off.



06.06. BEV Proper and Safe Operation

ELETRE is driven by high voltage batteries, which may result in worse conditions such as high voltage electricity leakage, damage to battery pack, leakage of chemical liquid, etc. in the event of serious collisions. Therefore, the emergency rescue personnel should wear appropriate protective equipment to ensure personal safety when rescuing on the vehicle.

LOTUS supplies safety recommendations and special precautions and warnings for rescue personnel such as towing method, emergency rescue procedures, release method of high-voltage system, wading rescue and rescue of vehicle or fire. This detailed documentation can be found in the vehicle handbook.



06.07. Dynamometer Parameters

Vehicle	ETW	Target			Setting		
		A [lbf]	B [lbf/mph]	C [lbf/mph ²]	A [lbf]	B [lbf/mph]	C [lbf/mph ²]
GIC_C10_6100	6000	52.74	0.4334	0.0165	-7.83	0.1610	0.0177
GIC_C10_6119	6000	49.19	0.1899	0.0210	-8.08	-0.0412	0.0213



07. Test Results

07.01. Exhaust & Evaporative Standards

	Federal
Exhaust Emissions Standards	Tier 4 Bin 0
Evaporative Standards	N.A.

07.02. Certification tests and Test procedures

LOTUS chose the 5-cycle test procedures according to SAE J1634-2017, Appendix B, Option 2, for fuel economy labeling. The following certification tests IDs are detailed below for Range, Energy consumption and adjustment factor determination.

5-Cycle based Range & Energy Consumption	ELETRE S Long Range GIC_C10_6100#1024	ELETRE S Performance GIC_C10_6119#1069
MCT	SWHN10086726	SWHN10086727
UDDS	SWHN10086784	SWHN10086785
HW	SWHN10086805	SWHN10086806
US06	SWHN10086817	SWHN10086818
SC03	SWHN10086821	SWHN10086822
COLD UDDS 20F	SWHN10086825	SWHN10086826

For 5-Cycle Range and Energy Consumption results, please refer to 16.03 of this Test Group Application.

Certification Summary Information Report

Manufacturer	Wuhan Lotus Cars Co., Ltd	Manufacturer Code	WHN
Test Group	VWHNV00.0LEB	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	05/13/2026 04:12:20 AM
Model Year	2027		

Test Group Information

CSI Type	New	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	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VWHNEEVNNLEB	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	--	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	--
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VWHNV00.0LEB
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		VWHNV00.0LEB		Evaporative/Refueling Family		--					
Models Covered by this Certificate											
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup				
Wuhan Lotus Cars Co., Ltd	1 - Wuhan Lotus Cars	804 - ELETRE S Performance	Federal	4-Wheel Drive	Automatic	1	No				
Wuhan Lotus Cars Co., Ltd	1 - Wuhan Lotus Cars	803 - ELETRE S Long Range	Federal	4-Wheel Drive	Automatic	1	No				
Wuhan Lotus Cars Co., Ltd	1 - Wuhan Lotus Cars	803 - ELETRE S Long Range	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No				
Wuhan Lotus Cars Co., Ltd	1 - Wuhan Lotus Cars	804 - ELETRE S Performance	California + CAA Section 177 states	4-Wheel Drive	Automatic	1	No				
Engine Description											
Hybrid Type		--		Hybrid Description		--					
Engine Type		--		Mfr Engine Description		--					
Engine Block Arrangement		--		Mfr Engine Block Arrangement Description		--					
Camless Valvetrain Indicator		--		Oil Viscosity/Classification							
Number of Cylinders/Rotors		--		Mechanically Variable Compression Ratio Indicator		--					
After Treatment Device(s) (ATD)											
Mfr After Treatment Device (ATD) Comments		--									
Direct Ozone Reduction (DOR) Device		--									
Mfr Emission Control Device Comments		--									
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity		--	--	--	--	--	--	--	--	--	--

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	708	Battery Energy Capacity	158
Battery Specific Energy	168	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	Yes
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	2		
Motor/Generator Type 1	AC 3ph permanent magnet rear	Rated Motor/Generator Power	450
Motor/Generator Type 2	AC 3ph permanent magnet front	Rated Motor/Generator Power	225
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	VWHNV00.0LEB	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	GIC_C10_6100 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SWHNV00.0LEB	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	Lotus	Represented Test Vehicle Model	ELETRE S Long Range						
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	Yes	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	0	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Kilometers								
Engine Code	LEB	Rated Horsepower	603						
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)	5600	Equivalent Test Weight (pounds)	6000						
GVWR (lbs)	--	N/V Ratio	9.2						
Axle Ratio	1								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group		VWHNV00.0LEB			Evaporative/Refueling Family		--	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	52.74	0.4334	0.0165	-7.83	0.161	0.0177	15.4	
Cold CO	58.01	0.4768	0.0181	-21.28	-0.3285	0.0222	N/A	
US06	52.74	0.4334	0.0165	-7.83	0.161	0.0177	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		This is 2025 ELETRE S Long Range; Front Motor Power - 225kW (EDS1 motor); Rear Motor Power - 225kW (EDS1 motor) Number of transmission gears on front motor EDS1: 1 Number of transmission gears on rear motor ESS1: 1 N/V ratio on front motor EDS1: 9.187 N/V ratio on rear motor EDS1: 9.187						

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086784	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/05/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	9539	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
ACT-DISTANCE (Actual Distance Driven (miles))	14.885	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	28.92	116.5456432
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

DC energy consumption Phase1 = 310.8 Wh/mi; Phase2 = 278.4 Wh/mi; Phase3 = 297.1 Wh/mi; Phase4 = 274.8 Wh/mi Drive trace indicators Ph1 ASCR (%) = -0.473; EER (%) = -0.635; IWR (%) = -0.070 Ph2 ASCR (%) = -1.081; EER (%) = -0.860; IWR (%) = -2.044 Ph3 ASCR (%) = -3.795; EER (%) = -2.326; IWR (%) = -5.076 Ph4 ASCR (%) = -0.877; EER (%) = -0.954; IWR (%) = -1.761

Certification Summary Information Report

Test Group		VWHNV00.0LEB				Evaporative/Refueling Family				--		
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	CO	0.0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086805	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/05/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	9539	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
ACT-DISTANCE (Actual Distance Driven (miles))	10.253	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.52	--
DT-EER (Drive Trace Energy Economy Rating)	0.215	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.089	--
MFR FE (Manufacturer Fuel Economy)	28.51	118.2216766
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

DC energy consumption = 285.1 Wh/mi

Certification Summary Information Report

Test Group		VWHNV00.0LEB			Evaporative/Refueling Family					--		
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	CO	0.0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086817	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/05/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	9539	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
ACT-DISTANCE (Actual Distance Driven (miles))	7.985	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	35.7	94.4117647
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

DC energy consumption Phase 1 (Highway) = 390.2 Wh/mi; Phase 2 (City) = 347.6 Wh/mi Drive trace indicators Ph city ASCR (%) = -0.981; EER (%) = 0.451; IWR (%) = 0.439 Ph hw ASCR (%) = -10.112; EER (%) = -3.797; IWR (%) = -13.567

Certification Summary Information Report

Test Group		VWHNV00.0LEB			Evaporative/Refueling Family				--			
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	CO	0.0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086821	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/23/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	10124	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
ACT-DISTANCE (Actual Distance Driven (miles))	3.36	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-7.851	--
DT-EER (Drive Trace Energy Economy Rating)	-5.35	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-11.216	--
MFR FE (Manufacturer Fuel Economy)	40.23	83.7807606
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

DC energy consumption = 402.3 Wh/mi

Certification Summary Information Report

Test Group		VWHNV00.0LEB			Evaporative/Refueling Family				--			
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	CO	0.0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--																
Test #	SWHN10086726	Test Procedure	77 - Multi-Cycle Test (MCT)																
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																
Test Date	03/27/2024	Fuel	Electricity																
Fuel Batch ID	--	Fuel Calibration Number	--																
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned																
Verify Test Lab ID	Applus IDIADA Automotive Technology																		
E10 Evaporative Test Measurement Method	--																		
Test Start Odometer Reading	8671	Odometer Units	K																
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																
State of Charge Delta	--																		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																
PHEV/EV Charge Depleting Test Information																			
Recharge Event Voltage	230	Recharge Event Energy (kiloWatt-hours)	128.444																
Charge Depleting Range (Calculated miles)	405.214	Charge Depleting Range (Actual miles)	405.214																
Charge Depleting Range Highway (Calculated miles)	390.533	Derived 5-Cycle Coefficient Model Year	--																
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	405.214																
Number of Charge Depleting Bags/Phases Conducted	8	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>7.438</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-0.044</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.081</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>0.021</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.1717</td></tr><tr><td>Manufacturer Fuel Economy</td><td>29.2</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.438	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-0.044	Drive Trace Energy Economy Rating	-0.081	Drive Trace Inertia Work Ratio Rating	0.021	Integrated DC KW-HRS	2.1717	Manufacturer Fuel Economy	29.2
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.438																		
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Drive Trace Energy Economy Rating	-0.081																		
Drive Trace Inertia Work Ratio Rating	0.021																		
Integrated DC KW-HRS	2.1717																		
Manufacturer Fuel Economy	29.2																		
Charge Depleting Bag/Phase #2																			

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	10.246
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	4.39
		Drive Trace Energy Economy Rating	0.077
		Drive Trace Inertia Work Ratio Rating	5.397
		Integrated DC KW-HRS	2.9747
		Manufacturer Fuel Economy	29.02
Charge Depleting Bag/Phase #3			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.432
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	0.654
		Drive Trace Energy Economy Rating	0.076
		Drive Trace Inertia Work Ratio Rating	1.267
		Integrated DC KW-HRS	2.1144
		Manufacturer Fuel Economy	28.45
Charge Depleting Bag/Phase #4			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	261.443
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	0
		Drive Trace Energy Economy Rating	0.232
		Drive Trace Inertia Work Ratio Rating	0
		Integrated DC KW-HRS	89.142
		Manufacturer Fuel Economy	34.09
Charge Depleting Bag/Phase #5			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.506
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-2.374
		Drive Trace Energy Economy Rating	-1.626
		Drive Trace Inertia Work Ratio Rating	-3.203
		Integrated DC KW-HRS	1.9854
		Manufacturer Fuel Economy	26.45
Charge Depleting Bag/Phase #6			

Certification Summary Information Report

Test Group	VWHNV00.0LEB	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>10.284</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>4.767</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>0.281</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>6.254</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.8678</td></tr><tr><td>Manufacturer Fuel Economy</td><td>27.89</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.284	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	4.767	Drive Trace Energy Economy Rating	0.281	Drive Trace Inertia Work Ratio Rating	6.254	Integrated DC KW-HRS	2.8678	Manufacturer Fuel Economy	27.89		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	10.284																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	4.767																		
Drive Trace Energy Economy Rating	0.281																		
Drive Trace Inertia Work Ratio Rating	6.254																		
Integrated DC KW-HRS	2.8678																		
Manufacturer Fuel Economy	27.89																		
Charge Depleting Bag/Phase #7																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.519</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>-3.644</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-3.586</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>-4.936</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.0514</td></tr><tr><td>Manufacturer Fuel Economy</td><td>27.28</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.519	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-3.644	Drive Trace Energy Economy Rating	-3.586	Drive Trace Inertia Work Ratio Rating	-4.936	Integrated DC KW-HRS	2.0514	Manufacturer Fuel Economy	27.28		
Test Result/Emission Name	Unrounded Test Result																		
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Drive Trace Energy Economy Rating	-3.586																		
Drive Trace Inertia Work Ratio Rating	-4.936																		
Integrated DC KW-HRS	2.0514																		
Manufacturer Fuel Economy	27.28																		
Charge Depleting Bag/Phase #8																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>23.854</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>62.564</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-1.135</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>43.833</td></tr><tr><td>Integrated DC KW-HRS</td><td>7.8279</td></tr><tr><td>Manufacturer Fuel Economy</td><td>32.81</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	23.854	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	62.564	Drive Trace Energy Economy Rating	-1.135	Drive Trace Inertia Work Ratio Rating	43.833	Integrated DC KW-HRS	7.8279	Manufacturer Fuel Economy	32.81		
Test Result/Emission Name	Unrounded Test Result																		
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Carbon-Related Exhaust Emissions	0																		
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Drive Trace Energy Economy Rating	-1.135																		
Drive Trace Inertia Work Ratio Rating	43.833																		
Integrated DC KW-HRS	7.8279																		
Manufacturer Fuel Economy	32.81																		
Manufacturer Test Comments		MCT UBE energy = 111.143 kWh Due to the system only allows metrics between -99.99 to 99.99, '0' are input in the test results. The charge depleting bag/phase #4 real data metrics are: DT-ASCR = 289.46 DT-IWRR = 579.445																	

Certification Summary Information Report

Test Group		VWHNV00.0LEB				Evaporative/Refueling Family				--		
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	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086825	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/04/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	9515	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	230	Recharge Event Energy (kiloWatt-hours)	128.444
Charge Depleting Range (Calculated miles)	14.9	Charge Depleting Range (Actual miles)	14.9
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	14.9
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)		3.58	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		2.65	
Drive Trace Energy Economy Rating		0.557	
Drive Trace Inertia Work Ratio Rating		3.267	
Integrated DC KW-HRS		2.2679	
Manufacturer Fuel Economy		63.34	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VWHNV00.0LEB	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>3.843</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>3.168</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>1.979</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>4.818</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.9653</td></tr><tr><td>Manufacturer Fuel Economy</td><td>51.14</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.843	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	3.168	Drive Trace Energy Economy Rating	1.979	Drive Trace Inertia Work Ratio Rating	4.818	Integrated DC KW-HRS	1.9653	Manufacturer Fuel Economy	51.14		
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Drive Trace Inertia Work Ratio Rating	4.818																		
Integrated DC KW-HRS	1.9653																		
Manufacturer Fuel Economy	51.14																		
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>3.587</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>2.092</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>0.534</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>3.337</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.7915</td></tr><tr><td>Manufacturer Fuel Economy</td><td>49.05</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.587	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	2.092	Drive Trace Energy Economy Rating	0.534	Drive Trace Inertia Work Ratio Rating	3.337	Integrated DC KW-HRS	1.7915	Manufacturer Fuel Economy	49.05		
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Manufacturer Fuel Economy	49.05																		
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>3.845</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>2.064</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>1.276</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>2.836</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.6788</td></tr><tr><td>Manufacturer Fuel Economy</td><td>43.65</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.845	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	2.064	Drive Trace Energy Economy Rating	1.276	Drive Trace Inertia Work Ratio Rating	2.836	Integrated DC KW-HRS	1.6788	Manufacturer Fuel Economy	43.65		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	3.845																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	2.064																		
Drive Trace Energy Economy Rating	1.276																		
Drive Trace Inertia Work Ratio Rating	2.836																		
Integrated DC KW-HRS	1.6788																		
Manufacturer Fuel Economy	43.65																		
Manufacturer Test Comments		2xUDDS 20F test +MY25 requirement. DC energy consumption Phase 1 = 633.4 Wh/mi; Phase 2 = 511.4 Wh/mi; Phase 3 = 490.5 Wh/mi; Phase 4 = 436.5 Wh/mi																	

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	GIC_C10_6119 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	SWHNV00.0LEB	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2025							
Vehicle Model								
Represented Test Vehicle Make	Lotus	Represented Test Vehicle Model	ELETRE S Performance					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </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	Yes	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	0	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Kilometers							
Engine Code	LEB	Rated Horsepower	603					
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)	5666	Equivalent Test Weight (pounds)	6000					
GVWR (lbs)	--	N/V Ratio	9.2					
Axle Ratio	1							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group		VWHNV00.0LEB			Evaporative/Refueling Family		--	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	49.19	0.1899	0.021	-8.08	-0.0412	0.0213	14.8	
Cold CO	54.11	0.2091	0.0231	-28.57	-0.3137	0.024	N/A	
US06	49.19	0.1899	0.021	-7.96	0.0127	0.0206	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		This is 2025 ELETRE S Performance; Front Motor Power - 225kW (EDS1 motor); Rear Motor Power - 225kW (EDS1 motor) Number of transmission gears on front motor EDS1: 1 Number of transmission gears on rear motor ESS1: 1 N/V ratio on front motor EDS1: 9.187 N/V ratio on rear motor EDS1: 9.187						

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086785	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/23/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7829	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
ACT-DISTANCE (Actual Distance Driven (miles))	14.953	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	29.22	115.349076
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

DC energy consumption Phase1 = 308.0 Wh/mi; Phase2 = 282.2 Wh/mi; Phase3 = 301.0 Wh/mi; Phase4 = 280.5 Wh/mi Drive trace indicators Ph1 ASCR (%) = -0.765; EER (%) = -1.277; IWR (%) = -0.274 Ph2 ASCR (%) = 0.947; EER (%) = 0.073; IWR (%) = 1.171 Ph3 ASCR (%) = -0.279; EER (%) = -0.559; IWR (%) = -0.101 Ph4 ASCR (%) = 0.782; EER (%) = 0.220; IWR (%) = 0.641

Certification Summary Information Report

Test Group		VWHNV00.0LEB			Evaporative/Refueling Family					--		
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	CO	0.0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086806	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/23/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7829	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
ACT-DISTANCE (Actual Distance Driven (miles))	10.263	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.241	--
DT-EER (Drive Trace Energy Economy Rating)	-0.135	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.117	--
MFR FE (Manufacturer Fuel Economy)	28.78	117.1125782
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

DC energy consumption = 287.8 Wh/mi

Certification Summary Information Report

Test Group		VWHNV00.0LEB			Evaporative/Refueling Family					--		
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	CO	0.0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086818	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/23/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7829	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
ACT-DISTANCE (Actual Distance Driven (miles))	8.011	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0	--
DT-EER (Drive Trace Energy Economy Rating)	0	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0	--
MFR FE (Manufacturer Fuel Economy)	37.32	90.3135048
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

DC energy consumption Phase 1 (Highway) = 419.7 Wh/mi; Phase 2 (City) = 360.0 Wh/mi Drive trace indicators Ph city ASCR (%) = 0.347; EER (%) = 1.071; IWR (%) = 0.971 Ph hw ASCR (%) = -7.072; EER (%) = -3.000; IWR (%) = -9.107

Certification Summary Information Report

Test Group		VWHNV00.0LEB			Evaporative/Refueling Family				--			
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	CO	0.0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086822	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/17/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7763	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
ACT-DISTANCE (Actual Distance Driven (miles))	3.573	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.033	--
DT-EER (Drive Trace Energy Economy Rating)	0.087	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.754	--
MFR FE (Manufacturer Fuel Economy)	46.97	71.7585693
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

DC energy consumption = 469.7 Wh/mi

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Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--																
Test #	SWHN10086727	Test Procedure	77 - Multi-Cycle Test (MCT)																
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																
Test Date	05/10/2024	Fuel	Electricity																
Fuel Batch ID	--	Fuel Calibration Number	--																
Vehicle Class	LDV/Passenger Car	DF Type	Mfr. Assigned																
Verify Test Lab ID	Applus IDIADA Automotive Technology																		
E10 Evaporative Test Measurement Method	--																		
Test Start Odometer Reading	6841	Odometer Units	K																
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																
State of Charge Delta	--																		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																
PHEV/EV Charge Depleting Test Information																			
Recharge Event Voltage	230	Recharge Event Energy (kiloWatt-hours)	130.721																
Charge Depleting Range (Calculated miles)	405.538	Charge Depleting Range (Actual miles)	405.538																
Charge Depleting Range Highway (Calculated miles)	395.039	Derived 5-Cycle Coefficient Model Year	--																
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	405.538																
Number of Charge Depleting Bags/Phases Conducted	8	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>7.475</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.962</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.919</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>1.415</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.2192</td></tr><tr><td>Manufacturer Fuel Economy</td><td>29.69</td></tr></table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.475	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.962	Drive Trace Energy Economy Rating	-0.919	Drive Trace Inertia Work Ratio Rating	1.415	Integrated DC KW-HRS	2.2192	Manufacturer Fuel Economy	29.69
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Drive Trace Energy Economy Rating	-0.919																		
Drive Trace Inertia Work Ratio Rating	1.415																		
Integrated DC KW-HRS	2.2192																		
Manufacturer Fuel Economy	29.69																		
Charge Depleting Bag/Phase #2																			

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	10.265
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	9.644
		Drive Trace Energy Economy Rating	0.543
		Drive Trace Inertia Work Ratio Rating	12.945
		Integrated DC KW-HRS	2.956
		Manufacturer Fuel Economy	28.78
Charge Depleting Bag/Phase #3			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.469
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-0.843
		Drive Trace Energy Economy Rating	-1.607
		Drive Trace Inertia Work Ratio Rating	-1.651
		Integrated DC KW-HRS	2.1587
		Manufacturer Fuel Economy	28.9
Charge Depleting Bag/Phase #4			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	259.953
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	0
		Drive Trace Energy Economy Rating	0.35
		Drive Trace Inertia Work Ratio Rating	0
		Integrated DC KW-HRS	90.5851
		Manufacturer Fuel Economy	34.85
Charge Depleting Bag/Phase #5			
		Test Result/Emission Name	Unrounded Test Result
		Actual Distance Driven (miles)	7.475
		Carbon-Related Exhaust Emissions	0
		Drive Trace Absolute Speed Change Rating	-0.375
		Drive Trace Energy Economy Rating	-1.031
		Drive Trace Inertia Work Ratio Rating	-0.806
		Integrated DC KW-HRS	1.9916
		Manufacturer Fuel Economy	26.64
Charge Depleting Bag/Phase #6			

Certification Summary Information Report

Test Group	VWHNV00.0LEB	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>10.284</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.495</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>5.692</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>7.43</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.8864</td></tr><tr><td>Manufacturer Fuel Economy</td><td>28.07</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.284	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.495	Drive Trace Energy Economy Rating	5.692	Drive Trace Inertia Work Ratio Rating	7.43	Integrated DC KW-HRS	2.8864	Manufacturer Fuel Economy	28.07	
	Test Result/Emission Name	Unrounded Test Result																
	Actual Distance Driven (miles)	10.284																
	Carbon-Related Exhaust Emissions	0																
	Drive Trace Absolute Speed Change Rating	0.495																
	Drive Trace Energy Economy Rating	5.692																
	Drive Trace Inertia Work Ratio Rating	7.43																
	Integrated DC KW-HRS	2.8864																
	Manufacturer Fuel Economy	28.07																

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.456
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.485
Drive Trace Energy Economy Rating	-1.007
Drive Trace Inertia Work Ratio Rating	-0.814
Integrated DC KW-HRS	2.0447
Manufacturer Fuel Economy	27.42

Charge Depleting Bag/Phase #8

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	21.717
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	45.331
Drive Trace Energy Economy Rating	-0.628
Drive Trace Inertia Work Ratio Rating	18.03
Integrated DC KW-HRS	7.4773
Manufacturer Fuel Economy	34.43

Manufacturer Test Comments

MCT UBE energy = 112.319 kWh Due to the system only allows metrics between -99.99 to 99.99, '0' are input in the test results. The charge depleting bag/phase #4 real data metrics are: DT-ASCR = 218.000 DT-IWRR = 436.847

Certification Summary Information Report

Test Group		VWHNV00.0LEB				Evaporative/Refueling Family				--		
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	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VWHNV00.0LEB	Evaporative/Refueling Family	--
Test #	SWHN10086826	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/14/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Assigned
Verify Test Lab ID	Applus IDIADA Automotive Technology		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7516	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	230	Recharge Event Energy (kiloWatt-hours)	130.721
Charge Depleting Range (Calculated miles)	14.9	Charge Depleting Range (Actual miles)	14.9
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	14.9
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)		3.555	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		4.281	
Drive Trace Energy Economy Rating		2.45	
Drive Trace Inertia Work Ratio Rating		5.268	
Integrated DC KW-HRS		2.0611	
Manufacturer Fuel Economy		57.97	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VWHNV00.0LEB	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>3.797</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.816</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>1.011</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>0.786</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.8122</td></tr><tr><td>Manufacturer Fuel Economy</td><td>47.73</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.797	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.816	Drive Trace Energy Economy Rating	1.011	Drive Trace Inertia Work Ratio Rating	0.786	Integrated DC KW-HRS	1.8122	Manufacturer Fuel Economy	47.73		
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Drive Trace Energy Economy Rating	1.011																		
Drive Trace Inertia Work Ratio Rating	0.786																		
Integrated DC KW-HRS	1.8122																		
Manufacturer Fuel Economy	47.73																		
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>3.561</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>0.552</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.146</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>1.175</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.4414</td></tr><tr><td>Manufacturer Fuel Economy</td><td>40.47</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.561	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.552	Drive Trace Energy Economy Rating	-0.146	Drive Trace Inertia Work Ratio Rating	1.175	Integrated DC KW-HRS	1.4414	Manufacturer Fuel Economy	40.47		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	3.561																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	0.552																		
Drive Trace Energy Economy Rating	-0.146																		
Drive Trace Inertia Work Ratio Rating	1.175																		
Integrated DC KW-HRS	1.4414																		
Manufacturer Fuel Economy	40.47																		
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>3.811</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>2.218</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>2.764</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>3.071</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.5128</td></tr><tr><td>Manufacturer Fuel Economy</td><td>39.69</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.811	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	2.218	Drive Trace Energy Economy Rating	2.764	Drive Trace Inertia Work Ratio Rating	3.071	Integrated DC KW-HRS	1.5128	Manufacturer Fuel Economy	39.69		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	3.811																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	2.218																		
Drive Trace Energy Economy Rating	2.764																		
Drive Trace Inertia Work Ratio Rating	3.071																		
Integrated DC KW-HRS	1.5128																		
Manufacturer Fuel Economy	39.69																		
Manufacturer Test Comments	2xUDDS 20F test +MY25 requirement. DC energy consumption Phase 1 = 579.7 Wh/mi; Phase 2 = 477.3 Wh/mi; Phase 3 = 404.7 Wh/mi; Phase 4 = 396.9 Wh/mi																		
Fuel Properties																			

Certification Summary Information Report

Test Group		VWHNV00.0LEB			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			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	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			HWFE	
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	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	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 20 Degree F FTP	
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	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	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			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	CO	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group		VWHNV00.0LEB			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			Charge Depleting 20 Degree F FTP	
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	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	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			Multi-Cycle Test (MCT)	
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	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	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	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group		VWHNV00.0LEB	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		VWHNV00.0LEB	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		VWHNV00.0LEB	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		VWHNV00.0LEB	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	



08. Manufacturer Statement (Emission Testing Waiver)

Not Applicable. Not required for Battery Electric Vehicles.



09. OBD System Description

Not Applicable. Not required for Battery Electric Vehicles.



10. Description of Alternate-fueled Vehicles

Wuhan Lotus Co. Ltd. produces Battery Electric Vehicles.



11. AECD Description

Battery Electric Vehicle: No Auxiliary Emissions Control Devices



12. Description of vehicles covered by certificate and test parameters

List of Certified Vehicles

Durability Group	VWHNEEVNNLEB		
Test Group	VWHNV00.0LEB		
Emission Control	NA (BEV)		
Exhaust	NA (BEV)		
Evaporative	NA (BEV)		
Model	ELETRE S Long Range	ELETRE S Performance	
Carline	803	804	
Vehicle Class	LDV	LDV	LDV
Vehicle ID Tested	GIC_C10_6100	GIC_C10_6119	N.A.
ETW	6000	6000	6000
Curb Weight [lbs]	5600	5666	N.A.
Engine Code	LEB		
Drive type	AWD	AWD	AWD
Tire Size	Front: 275/40 R22 Rear: 315/35 R22	Front: 275/40 R22 Rear: 315/35 R22	Front: 275/35 R23 Rear: 315/30 R23
Axle Ratio	Front-1, Rear-1	Front-1, Rear-1	Front-1, Rear-1
N/V Ratio	Front-9.187 Rear-9.187	Front-9.187 Rear-9.187	Front-9.187 Rear-9.187
RLHP@50mph	15.41	14.83	14.64
Target RL A [lbf]	52.74	49.19	47.78
Target B [lbf/mph]	0.4334	0.1899	0.1899
Target C [lbf/mph^2]	0.0165	0.0210	0.0210

*Test vehicles are selected on worst case



Transmission

	ELETRE S Long Range ELETRE S Performance
Transmission Type	AT
Number of Transmission gears	Front: 1, Rear: 1

Battery details

Battery Type	Lithium-ion
Total Weight (kg)	665
Rated Voltage (V)	708
Rated Capacity (Ah)	158
Energy Density (Wh/kg)	168

Driving electric motor details

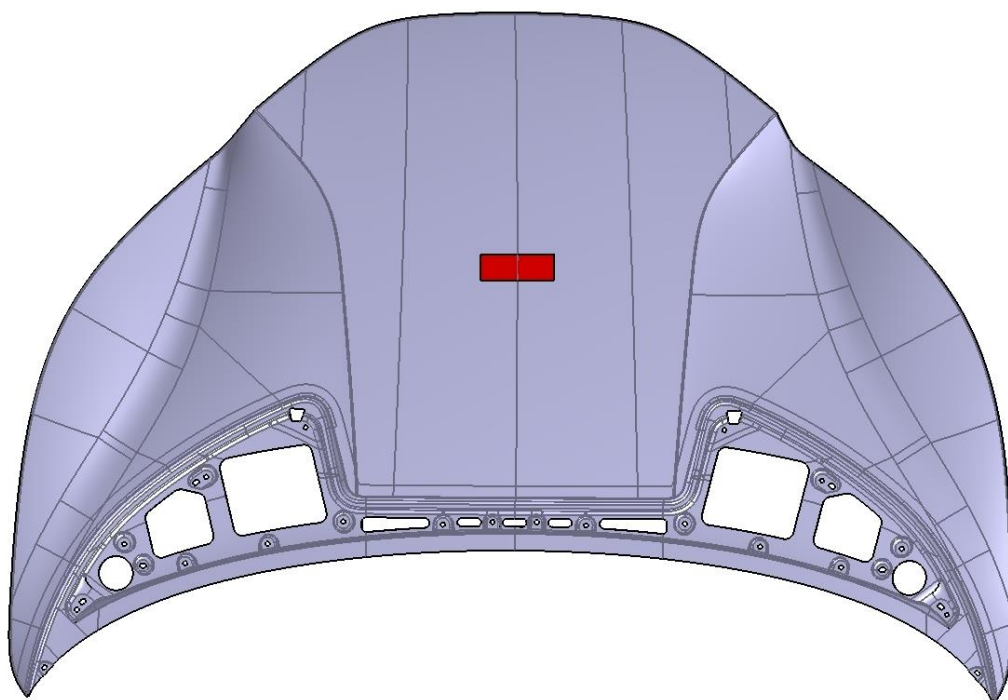
Engine Code	LEB
Front axle	
Front motor type	TZ230XS225
Working principle	AC, 3 Phases, Permanent magnet
Rated Speed (rpm)	17,000
Peak Power (kW)	225
Peak Torque (N.m)	355
Rear axle	
Rear motor type	TZ230XS225
Working principle	AC, 3 Phases, Permanent magnet
Rated Speed (rpm)	17,000
Peak Power (kW)	225
Peak Torque (N.m)	355



VEHICLE EMISSION CONTROL INFORMATION LABEL

Label size: 130mm*45mm

Label location: Inside of the hood



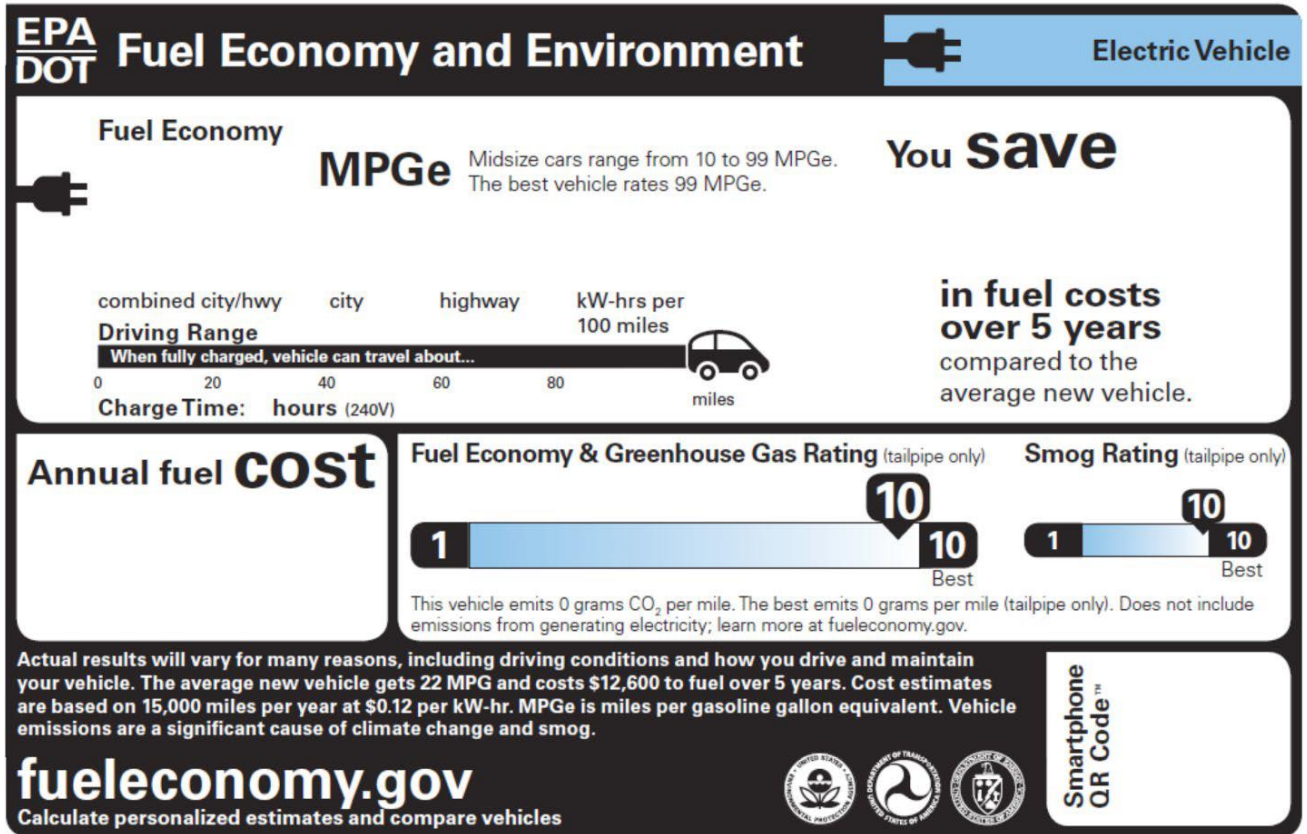
Label Sample:



100x30mm



Fuel Economy Label





13. Projected Sales

Refer to Section 16 of this Test Group Application



14. Request for Certificate

Mr. David Wright

Light-Duty Vehicle Compliance Branch

Implementation, Analysis, and Compliance Division

U.S.Environmental Protection Agency

2000 Traverwood Drive

Ann Arbor, Michigan 48105

Subject: Request for issuance of a new Certificate of Conformity-Initial application

Dear Mr. David

Wuhan Lotus Cars Co., Ltd. (Lotus) herewith submits an application for Certification for 2027MY light-duty vehicles (LDV's) in test group **VWHNV00.0LEB** which comprises of all Zero Emission Vehicles

Lotus believes that all vehicles within this test group comply with all applicable regulations within Code of Federal Regulations Title 40 Parts 85, 86, 600.

Please do not hesitate to contact me if you have any questions regarding this submission.

Sincerely yours,

Wuhan Lotus Cars Co.. Ltd.

Ms Han FANG

Senior Director- Vehicle Homologation



15. Other Information

15.01. Revision Index

Section No.	Date:	Comments:	RC Number
Part I			
All	05/2026	Initial application	
Part II			
All	05/2026	Initial application	

15.02. Running Change

Model Year: 2027

Test Group: VWHNV00.0LEB

Model: ELETRE S Long Range, ELETRE S Performance

RC number	Description of change	Date

15.03. Fee Filling Form

Please refer to the following page.

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 05/26/2026

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

WHN

Manufacturer Name *

Wuhan Lotus Cars Co., Ltd.

Contact Name *

Ray Wang

Contact Email Address *

yiqun.wang7@geely.com

Contact Phone *

008613930348533

Calendar Year complete application submitted to EPA *

2026

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

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

Engine Family / Evaporative Family / Test Group *

VWHNV00.0LEB

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

\$32,317.00

Payment Type *

Offline Wire

Comments

MY2027 LOTUS Cars Test Group - ELETRE S

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.



16. Confidential Information

N/A