

Certification Summary Information Report

Test Group		TWHNV00.0LEB			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	California + CAA Section 177 states	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	803 - ELETRE S Long Range	Federal	4-Wheel Drive	Automatic	1	No			
Wuhan Lotus Cars Co., Ltd		1 - Wuhan Lotus Cars	804 - ELETRE S Performance	Federal	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	TWHNV00.0LEB	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 front	Rated Motor/Generator Power	225
Motor/Generator Type 2	AC 3ph permanent magnet rear	Rated Motor/Generator Power	450
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

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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	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

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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	TWHNV00.0LEB	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	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

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	TWHNV00.0LEB	Evaporative/Refueling Family	--
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 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	TWHNV00.0LEB	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	TWHNV00.0LEB	Evaporative/Refueling Family	--
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 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	TWHNV00.0LEB	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		TWHNV00.0LEB				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 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	TWHNV00.0LEB	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		TWHNV00.0LEB				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 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	TWHNV00.0LEB	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			
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	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	TWHNV00.0LEB	Evaporative/Refueling Family	--																
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>10.246</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>4.39</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.077</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>5.397</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.9747</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>29.02</td> </tr> </tbody> </table>				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
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Drive Trace Inertia Work Ratio Rating	5.397																		
Integrated DC KW-HRS	2.9747																		
Manufacturer Fuel Economy	29.02																		
Charge Depleting Bag/Phase #3																			
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Integrated DC KW-HRS	2.1144																		
Manufacturer Fuel Economy	28.45																		
Charge Depleting Bag/Phase #4																			
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>261.443</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.232</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>89.142</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>34.09</td> </tr> </tbody> </table>				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
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	261.443																		
Carbon-Related Exhaust Emissions	0																		
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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																			
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Drive Trace Inertia Work Ratio Rating	-3.203																		
Integrated DC KW-HRS	1.9854																		
Manufacturer Fuel Economy	26.45																		
Charge Depleting Bag/Phase #6																			

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Test Group	TWHNV00.0LEB	Evaporative/Refueling Family	--
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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

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

Charge Depleting Bag/Phase #8

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

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

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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--

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Test Group	TWHNV00.0LEB	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	TWHNV00.0LEB	Evaporative/Refueling Family	--																
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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		TWHNV00.0LEB			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	TWHNV00.0LEB	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	Road Speed Fan Usage	No
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		

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		TWHNV00.0LEB				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 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 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	TWHNV00.0LEB	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		TWHNV00.0LEB				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 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 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	TWHNV00.0LEB	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	TWHNV00.0LEB	Evaporative/Refueling Family	--
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	TWHNV00.0LEB	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

Certification Summary Information Report

Test Group	TWHNV00.0LEB	Evaporative/Refueling Family	--
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	TWHNV00.0LEB	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			
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	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	TWHNV00.0LEB	Evaporative/Refueling Family	--																
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Charge Depleting Bag/Phase #4																			
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Drive Trace Inertia Work Ratio Rating	0																		
Integrated DC KW-HRS	90.5851																		
Manufacturer Fuel Economy	34.85																		
Charge Depleting Bag/Phase #5																			
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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	TWHNV00.0LEB	Evaporative/Refueling Family	--
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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		TWHNV00.0LEB				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 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	TWHNV00.0LEB	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	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		
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	TWHNV00.0LEB	Evaporative/Refueling Family	--																
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Manufacturer Fuel Economy	47.73																		
Charge Depleting Bag/Phase #3																			
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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		TWHNV00.0LEB			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 3 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	
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			California ZEV		
Fuel		Electricity			Test Procedure			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	
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 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	
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 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		TWHNV00.0LEB			Evaporative/Refueling Family			--		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 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 3 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 3 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	

Certification Summary Information Report

Test Group	TWHNV00.0LEB	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		TWHNV00.0LEB	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	TWHNV00.0LEB	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	TWHNV00.0LEB	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	