



### Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
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**Models Covered by this Certificate**

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Wuhan Lotus Cars Co., Ltd	1 - Wuhan Lotus Cars	802 - ELETRE R Performance	California + CAA Section 177 states	4-Wheel Drive	Automatic	2	No
Wuhan Lotus Cars Co., Ltd	1 - Wuhan Lotus Cars	802 - ELETRE R Performance	Federal	4-Wheel Drive	Automatic	2	No
Wuhan Lotus Cars Co., Ltd	1 - Wuhan Lotus Cars	801 - ELETRE R Long Range	California + CAA Section 177 states	4-Wheel Drive	Automatic	2	No
Wuhan Lotus Cars Co., Ltd	1 - Wuhan Lotus Cars	801 - ELETRE R Long Range	Federal	4-Wheel Drive	Automatic	2	No

**Engine Description**

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

**After Treatment Device(s) (ATD)**

<b>Mfr After Treatment Device (ATD) Comments</b>	--
<b>Direct Ozone Reduction (DOR) Device</b>	--
<b>Mfr Emission Control Device Comments</b>	--

**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	TWHNV00.0LZB	Evaporative/Refueling Family	--
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>			
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	--		



## Certification Summary Information Report

Test Group		TWHNV00.0LZB			Evaporative/Refueling Family			--
<b>Dynamometer Coefficients:</b>								
		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	46.58	0.4928	0.0187	-9.89	0.0579	0.02	15.7	
Cold CO	51.24	0.542	0.0206	-24.86	-0.0329	0.0219	N/A	
US06	46.58	0.4928	0.0187	-9.89	0.0579	0.02	N/A	
<b>Emission Control Device Comments</b>		--						
<b>Manufacturer Test Vehicle Comments</b>		This is 2025 ELETRE R Performance; Front Motor Power - 225kW (EDS1 motor); Rear Motor Power - 450 kW (Zeus motor) Number of transmission gears on front motor EDS1: 1 Number of transmission gears on rear motor Zeus: 2 N/V ratio on front motor EDS1: 9.187 N/V ratio on rear motor Zeus: 1st 13.645 , 2nd 7.155						

## Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086781</b>	<b>Test Procedure</b>	<b>2 - CVS 75 and later (w/o can. load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/19/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	7862	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No	<b>Road Speed Fan Usage</b>	Yes
<b>Drive Cycle Speed Tolerance Criteria</b>	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))	14.843	--
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)	30.78	109.502924
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 = 336.1 Wh/mi; Phase2 = 291.9 Wh/mi; Phase3 = 319.8 Wh/mi; Phase4 = 289.0 Wh/mi Drive trace indicators Ph1 ASCR (%) = 3.266; EER (%) = 2.163; IWR (%) = 3.330 Ph2 ASCR (%) = 1.606; EER (%) = 1.036; IWR (%) = 2.897 Ph3 ASCR (%) = 0.148; EER (%) = 0.697; IWR (%) = -0.034 Ph4 ASCR (%) = 1.379; EER (%) = 0.834; IWR (%) = 1.961

### Certification Summary Information Report

<b>Test Group</b>		TWHNV00.0LZB				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

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086804</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/19/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	7862	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
<b>ACT-DISTANCE (Actual Distance Driven (miles))</b>	10.234	--
<b>METHANE (CH4 - Methane)</b>	0	--
<b>CO (Carbon Monoxide)</b>	0	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	-0.355	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	0.126	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	-0.984	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	31.08	108.4459459
<b>NOX (Nitrogen Oxide)</b>	0	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0	--
<b>NMOG (Non-methane organic gases)</b>	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	0	--

**Manufacturer Test Comments**                      DC energy consumption = 310.8 Wh/mi

### Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
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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

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086816</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/19/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	7862	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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))	7.965	--
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)	39.66	84.9848714
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) = 419.2 Wh/mi; Phase 2 (City) = 390.3 Wh/mi Drive trace indicators Ph city ASCR (%) = -1.618; EER (%) = 0.849; IWR (%) = -1.405 Ph hw ASCR (%) = -1.405; EER (%) = -2.732; IWR (%) = -1.694

### Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
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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

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086820</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	05/02/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	8028	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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))	3.566	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.411	--
DT-EER (Drive Trace Energy Economy Rating)	0.221	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.987	--
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		TWHNV00.0LZB				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**

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086725</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/16/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	7128	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	230	<b>Recharge Event Energy (kiloWatt-hours)</b>	127.924
<b>Charge Depleting Range (Calculated miles)</b>	367.616	<b>Charge Depleting Range (Actual miles)</b>	367.616
<b>Charge Depleting Range Highway (Calculated miles)</b>	360.69	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	367.616
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--

**Charge Depleting Bag/Phase #1**

<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
Actual Distance Driven (miles)	7.469
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	5.856
Drive Trace Energy Economy Rating	4.44
Drive Trace Inertia Work Ratio Rating	8.248
Integrated DC KW-HRS	2.349
Manufacturer Fuel Economy	31.45

**Charge Depleting Bag/Phase #2**

## Certification Summary Information Report

Test Group	TWHNV00.0LZB	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>10.271</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>4.83</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>1.767</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>5.267</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>3.1565</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>30.73</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.271	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	4.83	Drive Trace Energy Economy Rating	1.767	Drive Trace Inertia Work Ratio Rating	5.267	Integrated DC KW-HRS	3.1565	Manufacturer Fuel Economy	30.73
Test Result/Emission Name	Unrounded Test Result																		
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Drive Trace Energy Economy Rating	1.767																		
Drive Trace Inertia Work Ratio Rating	5.267																		
Integrated DC KW-HRS	3.1565																		
Manufacturer Fuel Economy	30.73																		
<b>Charge Depleting Bag/Phase #3</b>																			
<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>7.444</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>3.922</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>2.006</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>4.864</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.2908</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>30.77</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.444	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	3.922	Drive Trace Energy Economy Rating	2.006	Drive Trace Inertia Work Ratio Rating	4.864	Integrated DC KW-HRS	2.2908	Manufacturer Fuel Economy	30.77
Test Result/Emission Name	Unrounded Test Result																		
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Drive Trace Absolute Speed Change Rating	3.922																		
Drive Trace Energy Economy Rating	2.006																		
Drive Trace Inertia Work Ratio Rating	4.864																		
Integrated DC KW-HRS	2.2908																		
Manufacturer Fuel Economy	30.77																		
<b>Charge Depleting Bag/Phase #4</b>																			
<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>238.513</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>-0.333</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>87.1452</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>36.54</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	238.513	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0	Drive Trace Energy Economy Rating	-0.333	Drive Trace Inertia Work Ratio Rating	0	Integrated DC KW-HRS	87.1452	Manufacturer Fuel Economy	36.54
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	238.513																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	0																		
Drive Trace Energy Economy Rating	-0.333																		
Drive Trace Inertia Work Ratio Rating	0																		
Integrated DC KW-HRS	87.1452																		
Manufacturer Fuel Economy	36.54																		
<b>Charge Depleting Bag/Phase #5</b>																			
<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>7.444</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>2.732</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>2.913</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>4.379</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.154</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>28.94</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.444	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	2.732	Drive Trace Energy Economy Rating	2.913	Drive Trace Inertia Work Ratio Rating	4.379	Integrated DC KW-HRS	2.154	Manufacturer Fuel Economy	28.94
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.444																		
Carbon-Related Exhaust Emissions	0																		
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Drive Trace Energy Economy Rating	2.913																		
Drive Trace Inertia Work Ratio Rating	4.379																		
Integrated DC KW-HRS	2.154																		
Manufacturer Fuel Economy	28.94																		
<b>Charge Depleting Bag/Phase #6</b>																			

## Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.265
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.024
Drive Trace Energy Economy Rating	1.136
Drive Trace Inertia Work Ratio Rating	-0.175
Integrated DC KW-HRS	3.0819
Manufacturer Fuel Economy	30.02

**Charge Depleting Bag/Phase #7**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.444
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	4.007
Drive Trace Energy Economy Rating	3.093
Drive Trace Inertia Work Ratio Rating	5.48
Integrated DC KW-HRS	2.2031
Manufacturer Fuel Economy	29.6

**Charge Depleting Bag/Phase #8**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	19.182
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	88.51
Drive Trace Energy Economy Rating	-0.817
Drive Trace Inertia Work Ratio Rating	82.78
Integrated DC KW-HRS	7.1865
Manufacturer Fuel Economy	37.46

**Manufacturer Test Comments**

MCT UBE energy = 109.570 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 = 560.772 DT-IWRR = 1115.138

### Certification Summary Information Report

Test Group		TWHNV00.0LZB				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	TWHNV00.0LZB	Evaporative/Refueling Family	--
<b>Test #</b>	<b>SWHN10086824</b>	<b>Test Procedure</b>	<b>86 - Charge Depleting 20 Degree F FTP</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/30/2024	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	7961	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>PHEV/EV Charge Depleting Test Information</b>			
<b>Recharge Event Voltage</b>	230	<b>Recharge Event Energy (kiloWatt-hours)</b>	127.924
<b>Charge Depleting Range (Calculated miles)</b>	14.9	<b>Charge Depleting Range (Actual miles)</b>	14.9
<b>Charge Depleting Range Highway (Calculated miles)</b>	--	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	14.9
<b>Number of Charge Depleting Bags/Phases Conducted</b>	4	<b>Transition Bag/Phase Number</b>	--
<b>Charge Depleting Bag/Phase #1</b>			
<b>Test Result/Emission Name</b>		<b>Unrounded Test Result</b>	
Actual Distance Driven (miles)		3.578	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-0.748	
Drive Trace Energy Economy Rating		-0.355	
Drive Trace Inertia Work Ratio Rating		-1.323	
Integrated DC KW-HRS		2.3063	
Manufacturer Fuel Economy		64.45	
<b>Charge Depleting Bag/Phase #2</b>			

## Certification Summary Information Report

Test Group	TWHNV00.0LZB	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>3.839</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.416</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.669</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.315</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.9775</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>51.52</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.839	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.416	Drive Trace Energy Economy Rating	-0.669	Drive Trace Inertia Work Ratio Rating	0.315	Integrated DC KW-HRS	1.9775	Manufacturer Fuel Economy	51.52
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<b>Charge Depleting Bag/Phase #4</b>																			
<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>3.861</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.41</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.312</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.911</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.7188</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>44.52</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	3.861	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.41	Drive Trace Energy Economy Rating	-0.312	Drive Trace Inertia Work Ratio Rating	0.911	Integrated DC KW-HRS	1.7188	Manufacturer Fuel Economy	44.52
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Drive Trace Inertia Work Ratio Rating	0.911																		
Integrated DC KW-HRS	1.7188																		
Manufacturer Fuel Economy	44.52																		
<b>Manufacturer Test Comments</b>	2xUDDS 20F test +MY25 requirement. DC energy consumption Phase 1 = 644.5 Wh/mi; Phase 2 = 515.2 Wh/mi; Phase 3 = 502.0 Wh/mi; Phase 4 = 445.2 Wh/mi																		



## Certification Summary Information Report

Test Group	TWHNV00.0LZB			Evaporative/Refueling Family			--
<b>Dynamometer Coefficients:</b>							
	Target Coefficients			Set Coefficients			
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	52.54	0.0264	0.023	-9.08	-0.0365	0.022	14.8
Cold CO	57.79	0.0289	0.0253	-30.78	-0.2927	0.0253	N/A
US06	52.54	0.0264	0.023	-9.08	-0.0365	0.022	N/A
<b>Emission Control Device Comments</b>	--						
<b>Manufacturer Test Vehicle Comments</b>	This is 2025 ELETRE R Long Range; Front Motor Power - 225kW (EDS1 motor); Rear Motor Power - 450 kW (Zeus motor) Number of transmission gears on front motor EDS1: 1 Number of transmission gears on rear motor Zeus: 2 N/V ratio on front motor EDS1: 9.187 N/V ratio on rear motor Zeus: 1st 13.645 , 2nd 7.155						

## Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086780</b>	<b>Test Procedure</b>	<b>2 - CVS 75 and later (w/o can. load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/19/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	9423	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No	<b>Road Speed Fan Usage</b>	Yes
<b>Drive Cycle Speed Tolerance Criteria</b>	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))	14.88	--
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)	29.66	113.6378962
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 = 316.5 Wh/mi; Phase2 = 286.3 Wh/mi; Phase3 = 305.8 Wh/mi; Phase4 = 281.9 Wh/mi Drive trace indicators Ph1 ASCR (%) = -1.705; EER (%) = -0.366; IWR (%) = -2.733 Ph2 ASCR (%) = 0.722; EER (%) = 0.550; IWR (%) = 1.303 Ph3 ASCR (%) = -0.868; EER (%) = -0.639; IWR (%) = -1.073 Ph4 ASCR (%) = -0.876; EER (%) = -1.133; IWR (%) = -0.902

### Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
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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

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086803</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/19/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	9423	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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))	10.246	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.673	--
DT-EER (Drive Trace Energy Economy Rating)	0.243	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.857	--
MFR FE (Manufacturer Fuel Economy)	29.82	113.028169
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 = 298.2 Wh/mi

### Certification Summary Information Report

<b>Test Group</b>		TWHNV00.0LZB				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

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086807</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/19/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	9423	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
<b>ACT-DISTANCE (Actual Distance Driven (miles))</b>	7.973	--
<b>METHANE (CH4 - Methane)</b>	0	--
<b>CO (Carbon Monoxide)</b>	0	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	0	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	0	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	0	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	38.29	88.0255941
<b>NOX (Nitrogen Oxide)</b>	0	--
<b>N2O (Nitrous Oxide)</b>	0	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0	--
<b>NMOG (Non-methane organic gases)</b>	0	--

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

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	0	--

**Manufacturer Test Comments**

DC energy consumption Phase 1 (Highway) = 412.5 Wh/mi; Phase 2 (City) = 374.6 Wh/mi Drive trace indicators Ph city ASCR (%) = -2.169; EER (%) = -0.163; IWR (%) = -2.055 Ph hw ASCR (%) = -2.612; EER (%) = -3.261; IWR (%) = -3.331

### Certification Summary Information Report

Test Group		TWHNV00.0LZB				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

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086819</b>	<b>Test Procedure</b>	<b>95 - SC03</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/24/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	9589	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	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))	3.568	--
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.077	--
DT-EER (Drive Trace Energy Economy Rating)	1.877	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.495	--
MFR FE (Manufacturer Fuel Economy)	43.62	77.2696011
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 = 436.2 Wh/mi

### Certification Summary Information Report

Test Group		TWHNV00.0LZB				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**

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>SWHN10086682</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/11/2024	<b>Fuel</b>	Electricity
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	8816	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	230	<b>Recharge Event Energy (kiloWatt-hours)</b>	128.301
<b>Charge Depleting Range (Calculated miles)</b>	383.559	<b>Charge Depleting Range (Actual miles)</b>	383.559
<b>Charge Depleting Range Highway (Calculated miles)</b>	373.593	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	383.559
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--

**Charge Depleting Bag/Phase #1**

<b>Test Result/Emission Name</b>	<b>Unrounded Test Result</b>
Actual Distance Driven (miles)	7.413
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.99
Drive Trace Energy Economy Rating	-1.119
Drive Trace Inertia Work Ratio Rating	-2.609
Integrated DC KW-HRS	2.2834
Manufacturer Fuel Economy	30.8

**Charge Depleting Bag/Phase #2**

## Certification Summary Information Report

Test Group	TWHNV00.0LZB	Evaporative/Refueling Family	--																
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Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	10.253																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	-3.352																		
Drive Trace Energy Economy Rating	-0.331																		
Drive Trace Inertia Work Ratio Rating	-4.849																		
Integrated DC KW-HRS	3.0852																		
Manufacturer Fuel Economy	30.09																		
<b>Charge Depleting Bag/Phase #3</b>																			
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<b>Charge Depleting Bag/Phase #4</b>																			
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Test Result/Emission Name	Unrounded Test Result																		
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Integrated DC KW-HRS	2.0386																		
Manufacturer Fuel Economy	27.52																		
<b>Charge Depleting Bag/Phase #6</b>																			

## Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.253
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-2.303
Drive Trace Energy Economy Rating	0.038
Drive Trace Inertia Work Ratio Rating	-3.108
Integrated DC KW-HRS	2.9631
Manufacturer Fuel Economy	28.9

**Charge Depleting Bag/Phase #7**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.413
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.391
Drive Trace Energy Economy Rating	-1.321
Drive Trace Inertia Work Ratio Rating	-0.55
Integrated DC KW-HRS	2.1314
Manufacturer Fuel Economy	28.75

**Charge Depleting Bag/Phase #8**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	21.972
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	47.694
Drive Trace Energy Economy Rating	-1.015
Drive Trace Inertia Work Ratio Rating	21.518
Integrated DC KW-HRS	7.9925
Manufacturer Fuel Economy	36.38

**Manufacturer Test Comments**

MCT UBE energy = 110.195 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 = 479.091 DT-IWRR = 956.074

### Certification Summary Information Report

Test Group		TWHNV00.0LZB				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	TWHNV00.0LZB	Evaporative/Refueling Family	--
<b>Test #</b>	<b>SWHN10086823</b>	<b>Test Procedure</b>	<b>86 - Charge Depleting 20 Degree F FTP</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	04/23/2024	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Assigned
<b>Verify Test Lab ID</b>	Applus IDIADA Automotive Technology		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	9523	<b>Odometer Units</b>	K
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes
<b>PHEV/EV Charge Depleting Test Information</b>			
<b>Recharge Event Voltage</b>	230	<b>Recharge Event Energy (kiloWatt-hours)</b>	128.301
<b>Charge Depleting Range (Calculated miles)</b>	14.9	<b>Charge Depleting Range (Actual miles)</b>	14.9
<b>Charge Depleting Range Highway (Calculated miles)</b>	--	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	14.9
<b>Number of Charge Depleting Bags/Phases Conducted</b>	4	<b>Transition Bag/Phase Number</b>	--
<b>Charge Depleting Bag/Phase #1</b>			
<b>Test Result/Emission Name</b>		<b>Unrounded Test Result</b>	
Actual Distance Driven (miles)		3.595	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-1.73	
Drive Trace Energy Economy Rating		-1.372	
Drive Trace Inertia Work Ratio Rating		-2.117	
Integrated DC KW-HRS		2.413	
Manufacturer Fuel Economy		67.13	
<b>Charge Depleting Bag/Phase #2</b>			

## Certification Summary Information Report

Test Group	TWHNV00.0LZB	Evaporative/Refueling Family	--																
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Drive Trace Energy Economy Rating	-2.08																		
Drive Trace Inertia Work Ratio Rating	-1.942																		
Integrated DC KW-HRS	1.8382																		
Manufacturer Fuel Economy	47.65																		
<b>Manufacturer Test Comments</b>	2xUDDS 20F test +MY25 requirement. DC energy consumption Phase 1 = 671.3 Wh/mi; Phase 2 = 542.4 Wh/mi; Phase 3 = 523.3 Wh/mi; Phase 4 = 476.5 Wh/mi																		
<b>Fuel Properties</b>																			

### Certification Summary Information Report

<b>Test Group</b>	TWHNV00.0LZB	<b>Evaporative/Refueling Family</b>	--						
<b>Consolidated List of Standards</b>									
<b>Exhaust Standards</b>									
<b>Cert Region</b>	California + CAA Section 177 states	<b>Cert/In-Use Code</b>	Cert						
<b>Vehicle Class</b>	LDV/Passenger Car	<b>Standard Level</b>	California ZEV						
<b>Fuel</b>	Electricity	<b>Test Procedure</b>	Charge Depleting 20 Degree F FTP						
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
<b>Cert Region</b>				Federal	<b>Cert/In-Use Code</b>		Cert		
<b>Vehicle Class</b>				LDV/Passenger Car	<b>Standard Level</b>		Federal Tier 3 Bin 0		
<b>Fuel</b>				Electricity	<b>Test Procedure</b>		Multi-Cycle Test (MCT)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
<b>Cert Region</b>				Federal	<b>Cert/In-Use Code</b>		Cert		
<b>Vehicle Class</b>				LDV/Passenger Car	<b>Standard Level</b>		Federal Tier 3 Bin 0		
<b>Fuel</b>				Electricity	<b>Test Procedure</b>		Charge Depleting 20 Degree F FTP		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
<b>Cert Region</b>				Federal	<b>Cert/In-Use Code</b>		Cert		
<b>Vehicle Class</b>				LDV/Passenger Car	<b>Standard Level</b>		Federal Tier 3 Bin 0		
<b>Fuel</b>				Electricity	<b>Test Procedure</b>		SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
120,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	CO	--	--	--	--	--	--	0	0

### Certification Summary Information Report

<b>Test Group</b>		TWHNV00.0LZB			<b>Evaporative/Refueling Family</b>			--		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 0		
<b>Fuel</b>		Electricity			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 0		
<b>Fuel</b>		Electricity			<b>Test Procedure</b>			CVS 75 and later (w/o can. load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 0		
<b>Fuel</b>		Electricity			<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	

## Certification Summary Information Report

Test Group	TWHNV00.0LZB	Evaporative/Refueling Family	--
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
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		TWHNV00.0LZB	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	
<b>Certification Region</b>					
CA	California + CAA Section 177 states		FA	Federal	
<b>Exhaust Emission Standard Level</b>					
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	TWHNV00.0LZB	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		
<b>Transmission Type Code</b>			
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)
<b>Drive System Code</b>			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive

## Certification Summary Information Report

Test Group	TWHNV00.0LZB	Evaporative/Refueling Family		--
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
<b>Additional Terms and Acronyms</b>				
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	