

Certification Summary Information Report

Test Group		VVTPT00.0VF9			Evaporative/Refueling Family			--			
Models Covered by this Certificate											
Carline Manufacturer	Division	Carline	Certification Region Code(s)		Drive System	Trans - Type	- # of Gears		Trans - Lockup		
VinFast Trading and Production Joint Stock Company	1 - Hai Phong manufacturing plant	4 - VF 9 Plus	California + CAA Section 177 states		All Wheel Drive	Automatic	1		No		
VinFast Trading and Production Joint Stock Company	1 - Hai Phong manufacturing plant	3 - VF 9 Eco	California + CAA Section 177 states		All Wheel Drive	Automatic	1		No		
VinFast Trading and Production Joint Stock Company	1 - Hai Phong manufacturing plant	3 - VF 9 Eco	Federal		All Wheel Drive	Automatic	1		No		
VinFast Trading and Production Joint Stock Company	1 - Hai Phong manufacturing plant	4 - VF 9 Plus	Federal		All Wheel Drive	Automatic	1		No		
Engine Description											
Hybrid Type			--			Hybrid Description			--		
Engine Type			--			Mfr Engine Description			--		
Engine Block Arrangement			--			Mfr Engine Block Arrangement Description			--		
Camless Valvetrain Indicator			--			Oil Viscosity/Classification			--		
Number of Cylinders/Rotors			--			Mechanically Variable Compression Ratio Indicator			--		
After Treatment Device(s) (ATD)											
Mfr After Treatment Device (ATD) Comments			--								
Direct Ozone Reduction (DOR) Device			--								
Mfr Emission Control Device Comments			--								
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		--	--	--	--	--	--	--	--	--	--

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Test Group	VVTPT00.0VF9	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	388	Battery Energy Capacity	338
Battery Specific Energy	179.5	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	Rear Wheels	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	AC 3 Phase Permanent Magnet	Rated Motor/Generator Power	300
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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Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	C-105 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RVTPT00.0C89	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	VinFast	Represented Test Vehicle Model	VF 9 Eco						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Drive Source and Fuel#</th> <th style="width: 33%;">Drive Source</th> <th style="width: 33%;">Fuel</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Electric Motor</td> <td style="text-align: center;">Electricity</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No	Multiple Fuel Combustion	--						
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes						
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--						
Rechargeable Energy Storage System	Battery(s)								
Off-board charge Capable Indicator	Yes	Odometer Correction Factor	0.994						
Odometer Correction -- Initial	73								
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles	Rated Horsepower	402						
Engine Code	CATL	Air Aspiration Method, if 'Other'							
Displacement (liters)	0.001	Air Aspiration Device Configuration	--						
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	All Wheel Drive						
Number of Air Aspiration Devices	--	Aged Emission Components	4,000 (mi)						
Charge Air Cooler Type	--	Equivalent Test Weight (pounds)	6500						
Shift Indicator Light Usage	Not equipped	N/V Ratio	121.5						
Curb Weight (lbs)	6419	# of Transmission Gears	1						
GVWR (lbs)	7632	Creeper Gear	No						
Axle Ratio	9.99								
Transmission Type	Automatic								
Transmission Lockup	No								
Dynamometer Coefficients:									
Target Coefficients			Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)						
City/Highway/Evap	40.78	0.4933	0.02518						
			A (lbf)						
			-7.02						
			B (lbf/mph)						
			0.0984						
			C (lbf/mph**2)						
			0.02392						
			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients						
			17.1						
Emission Control Device Comments	BEV								

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	--		

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10086953	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/29/2023	Fuel	Electricity
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3977	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	147.657
Charge Depleting Range (Calculated miles)	468.07	Charge Depleting Range (Actual miles)	468.07
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	468.07
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name	Unrounded Test Result		
Actual Distance Driven (miles)	468.07		
Carbon Monoxide	0		
Carbon dioxide	0		
Carbon-Related Exhaust Emissions	0		
Drive Trace Absolute Speed Change Rating	32.11		
Drive Trace Energy Economy Rating	4.397		
Drive Trace Inertia Work Ratio Rating	5.89		
Integrated DC KW-HRS	127.581		
Manufacturer Fuel Economy	117		
Nitrogen Oxide	0		
Non-methane organic gases	0		
Non-methane organic gases plus Nitrogen Oxides	999.999		
Particulate Matter	0		
System End State of Charge Watt-hours	0		
System Start State of Charge Watt-hours	123		

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
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Manufacturer Test Comments

Test results based on 2017 SAE J1634 2-cycle test procedure (MCT-65) DC energy consumption UDDS1 = 355.11 Wh/mi; UDDS2 = 279.44 Wh/mi; UDDS3 = 264.88 Wh/mi; UDDS4 = 268.10 Wh/mi; UDDS weighted = 291.88 Wh/mi; UDDS1 DC discharge energy= 2673.99 Wh MCT UBE energy = 127581 Wh AC Recharge Energy 147656.8 Wh

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

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10086954	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/29/2023	Fuel	Electricity
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3977	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	147.657
Charge Depleting Range (Calculated miles)	421.79	Charge Depleting Range (Actual miles)	421.79
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	421.79
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--

Charge Depleting Bag/Phase #1

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	421.79
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	32.11
Drive Trace Energy Economy Rating	4.397
Drive Trace Inertia Work Ratio Rating	5.89
Integrated DC KW-HRS	127.581
Manufacturer Fuel Economy	112
Nitrogen Oxide	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
System End State of Charge Watt-hours	0
System Start State of Charge Watt-hours	123

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
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Manufacturer Test Comments

Test results based on 2017 SAE J1634 2-cycle test procedure (MCT-65) DC energy consumption HFEDS1 = 311.47 Wh/mi; HFEDS2 = 293.48 weighted = 302.47 Wh/mi; HFEDS1 DC discharge energy= 3205.03 Wh MCT UBE energy = 127581 Wh AC Recharge Energy 147656.8 Wh

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

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10086955	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/31/2023	Fuel	N/A
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV North America		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3788	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	147.657
Charge Depleting Range (Calculated miles)	14.935	Charge Depleting Range (Actual miles)	14.935
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	14.935
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--

Charge Depleting Bag/Phase #1

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	14.935
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.75
Drive Trace Energy Economy Rating	1
Drive Trace Inertia Work Ratio Rating	3.04
Integrated DC KW-HRS	0.588
Manufacturer Fuel Economy	57.3
Nitrogen Oxide	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
System End State of Charge Watt-hours	0
System Start State of Charge Watt-hours	123

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Manufacturer Test Comments	Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). 2 UDDS DC energy consumption Phase 1 = 633.64 Wh/mi; Phase 3 = 536.61 Wh/mi; Total charge depleting energy consumption = 588.107 Wh/mi		

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10086956	Test Procedure	83 - Charge Depleting US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/15/2023	Fuel	N/A
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV North America		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3423	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	147.657
Charge Depleting Range (Calculated miles)	1.784	Charge Depleting Range (Actual miles)	1.784
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	1.784
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--

Charge Depleting Bag/Phase #1

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	1.784
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.76
Drive Trace Energy Economy Rating	0.41
Drive Trace Inertia Work Ratio Rating	1.66
Integrated DC KW-HRS	147.657
Manufacturer Fuel Economy	85.43
Nitrogen Oxide	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
System End State of Charge Watt-hours	0
System Start State of Charge Watt-hours	73.8

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Manufacturer Test Comments	Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). Combo US06 DC energy consumption Phase 1 (Highway) = 387.02 Wh/mi; Phase 2 (City) = 462.21 Wh/mi		

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10086957	Test Procedure	85 - Charge Depleting SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/16/2023	Fuel	N/A
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV North America		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3456	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	147.657
Charge Depleting Range (Calculated miles)	3.578	Charge Depleting Range (Actual miles)	3.578
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	3.578
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		3.578	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		4.61	
Drive Trace Energy Economy Rating		3.13	
Drive Trace Inertia Work Ratio Rating		5.25	
Integrated DC KW-HRS		147.657	
Manufacturer Fuel Economy		89.62	
Nitrogen Oxide		0	
Non-methane organic gases		0	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
System End State of Charge Watt-hours		0	
System Start State of Charge Watt-hours		64	

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Manufacturer Test Comments	Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). SC03 DC energy consumption = 376.02 Wh/mi DC energy = 1345.34 Wh		

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10087191	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/29/2023	Fuel	Electricity
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	Test Lab		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3977	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	147.657
Charge Depleting Range (Calculated miles)	468.1	Charge Depleting Range (Actual miles)	468.1
Charge Depleting Range Highway (Calculated miles)	421.8	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	322
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)	7.53
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	4.09
Drive Trace Energy Economy Rating	2.053
Drive Trace Inertia Work Ratio Rating	5.201
Integrated DC KW-HRS	2.674
Manufacturer Fuel Economy	35.511288
System End State of Charge Watt-hours	0
System Start State of Charge Watt-hours	123

Charge Depleting Bag/Phase #2

Certification Summary Information Report

Test Group	VVTPT00.0VF9	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>10.29</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>9.9</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>2.15</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>12.494</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>3.205</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>31.146744</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.29	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	9.9	Drive Trace Energy Economy Rating	2.15	Drive Trace Inertia Work Ratio Rating	12.494	Integrated DC KW-HRS	3.205	Manufacturer Fuel Economy	31.146744
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	10.29																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	9.9																		
Drive Trace Energy Economy Rating	2.15																		
Drive Trace Inertia Work Ratio Rating	12.494																		
Integrated DC KW-HRS	3.205																		
Manufacturer Fuel Economy	31.146744																		
Charge Depleting Bag/Phase #3																			
<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>7.44</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>4.18</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>3.216</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>5.34</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.079</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>27.943548</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.44	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	4.18	Drive Trace Energy Economy Rating	3.216	Drive Trace Inertia Work Ratio Rating	5.34	Integrated DC KW-HRS	2.079	Manufacturer Fuel Economy	27.943548
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.44																		
Carbon-Related Exhaust Emissions	0																		
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Drive Trace Inertia Work Ratio Rating	5.34																		
Integrated DC KW-HRS	2.079																		
Manufacturer Fuel Economy	27.943548																		
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>244.38</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</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>91.429</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>37.412636</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	244.38	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0	Drive Trace Energy Economy Rating	0	Drive Trace Inertia Work Ratio Rating	0	Integrated DC KW-HRS	91.429	Manufacturer Fuel Economy	37.412636
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	244.38																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	0																		
Drive Trace Energy Economy Rating	0																		
Drive Trace Inertia Work Ratio Rating	0																		
Integrated DC KW-HRS	91.429																		
Manufacturer Fuel Economy	37.412636																		
Charge Depleting Bag/Phase #5																			
<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>7.46</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>3.39</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>3.121</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>4.789</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.976</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>26.487935</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.46	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	3.39	Drive Trace Energy Economy Rating	3.121	Drive Trace Inertia Work Ratio Rating	4.789	Integrated DC KW-HRS	1.976	Manufacturer Fuel Economy	26.487935
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.46																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	3.39																		
Drive Trace Energy Economy Rating	3.121																		
Drive Trace Inertia Work Ratio Rating	4.789																		
Integrated DC KW-HRS	1.976																		
Manufacturer Fuel Economy	26.487935																		
Charge Depleting Bag/Phase #6																			

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.27
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	3.72
Drive Trace Energy Economy Rating	1.103
Drive Trace Inertia Work Ratio Rating	5.108
Integrated DC KW-HRS	3.014
Manufacturer Fuel Economy	29.347614

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.46
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	5.76
Drive Trace Energy Economy Rating	5.433
Drive Trace Inertia Work Ratio Rating	8.319
Integrated DC KW-HRS	2
Manufacturer Fuel Economy	26.809651

Charge Depleting Bag/Phase #8

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	56.67
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0
Drive Trace Energy Economy Rating	0
Drive Trace Inertia Work Ratio Rating	0
Integrated DC KW-HRS	21.204
Manufacturer Fuel Economy	37.416622

Manufacturer Test Comments

Test results based on 2017 SAE J1634 2-cycle test procedure (MCT-65). 5 cycle. Confirmatory test at EPA MCT UBE energy = 127581 Wh

Certification Summary Information Report

Test Group		VVTPT00.0VF9				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	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	C-112 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RVTPT00.0C89	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	VinFast	Represented Test Vehicle Model	VF 9 Plus						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Drive Source and Fuel#</th> <th style="width: 33%;">Drive Source</th> <th style="width: 33%;">Fuel</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Electric Motor</td> <td style="text-align: center;">Electricity</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	162	Odometer Correction Factor	1.002						
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	CATL	Rated Horsepower	402						
Displacement (liters)	0.001								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	6544	Equivalent Test Weight (pounds)	7000						
GVWR (lbs)	7757	N/V Ratio	121.5						
Axle Ratio	9.99								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creeper Gear	No						
Dynamometer Coefficients:									
Target Coefficients			Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)						
City/Highway/Evap	50.28	0.388	0.02763						
			A (lbf)						
			-1.84						
			B (lbf/mph)						
			-0.0698						
			C (lbf/mph**2)						
			0.02754						
			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients						
			18.5						
Emission Control Device Comments									
BEV									

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Manufacturer Test Vehicle Comments	--		

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10086958	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/25/2023	Fuel	Electricity
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	FEV North America		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2731	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	142.53
Charge Depleting Range (Calculated miles)	425	Charge Depleting Range (Actual miles)	425
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	425
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		424.9	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		11.46	
Drive Trace Energy Economy Rating		0.68	
Drive Trace Inertia Work Ratio Rating		24.53	
Integrated DC KW-HRS		142.53	
Manufacturer Fuel Economy		108	
Nitrogen Oxide		0	
Non-methane organic gases		0	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Particulate Matter		0	
System End State of Charge Watt-hours		0	
System Start State of Charge Watt-hours		123	

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
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Manufacturer Test Comments

Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65) DC energy consumption UDDS1 = 375.16 Wh/mi; UDDS2 = 305.47 Wh/mi; UDDS3 = 290.06 Wh/mi; UDDS4 = 289.65 Wh/mi; UDDS weighted = 315.08 Wh/mi; UDDS1 DC discharge energy= 2836.58 Wh MCT UBE energy = 126134.24 Wh AC Recharge Energy 142530 Wh

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

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10086959	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/25/2023	Fuel	Electricity
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	VW test laboratory		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2731	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	142.53
Charge Depleting Range (Calculated miles)	391	Charge Depleting Range (Actual miles)	391
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	391
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--

Charge Depleting Bag/Phase #1

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	391.28
Carbon Monoxide	0
Carbon dioxide	0
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	11.46
Drive Trace Energy Economy Rating	0.68
Drive Trace Inertia Work Ratio Rating	24.53
Integrated DC KW-HRS	142.53
Manufacturer Fuel Economy	105
Nitrogen Oxide	0
Non-methane organic gases	0
Non-methane organic gases plus Nitrogen Oxides	999.999
Particulate Matter	0
System End State of Charge Watt-hours	0
System Start State of Charge Watt-hours	123

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
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Manufacturer Test Comments

Test results based on 2017 SAE J1634 2-cycle test procedure (MCT-65) DC energy consumption HWFE1 = 328.87 Wh/mi; HWFE2 = 315.85 Wh/mi; HWFE average = 322.36 Wh/mi AC Recharge Energy = 142530 Wh /

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

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
Test #	RVTP10087188	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/25/2023	Fuel	Electricity
Fuel Batch ID	1	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	EPA Assigned
Verify Test Lab ID	FEV North America		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2731	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	220	Recharge Event Energy (kiloWatt-hours)	142.53
Charge Depleting Range (Calculated miles)	424.9	Charge Depleting Range (Actual miles)	424.9
Charge Depleting Range Highway (Calculated miles)	391.3	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	287
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)		7.561	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		7.7	
Drive Trace Energy Economy Rating		5.12	
Drive Trace Inertia Work Ratio Rating		12.03	
Integrated DC KW-HRS		2.83661	
Manufacturer Fuel Economy		37.5163338	
System End State of Charge Watt-hours		0	
System Start State of Charge Watt-hours		123	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VVTPT00.0VF9	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>10.298</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>10.69</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>4.57</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>13.71</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>3.38675</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>32.887453</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.298	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	10.69	Drive Trace Energy Economy Rating	4.57	Drive Trace Inertia Work Ratio Rating	13.71	Integrated DC KW-HRS	3.38675	Manufacturer Fuel Economy	32.887453
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Drive Trace Energy Economy Rating	4.57																		
Drive Trace Inertia Work Ratio Rating	13.71																		
Integrated DC KW-HRS	3.38675																		
Manufacturer Fuel Economy	32.887453																		
Charge Depleting Bag/Phase #3																			
<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>7.432</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>6.64</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>6.22</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>11.56</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.27023</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>30.5466899</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.432	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	6.64	Drive Trace Energy Economy Rating	6.22	Drive Trace Inertia Work Ratio Rating	11.56	Integrated DC KW-HRS	2.27023	Manufacturer Fuel Economy	30.5466899
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Drive Trace Inertia Work Ratio Rating	11.56																		
Integrated DC KW-HRS	2.27023																		
Manufacturer Fuel Economy	30.5466899																		
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>227.677</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>59.99</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.25</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>99.99</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>91.00866</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>39.972706</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	227.677	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	59.99	Drive Trace Energy Economy Rating	0.25	Drive Trace Inertia Work Ratio Rating	99.99	Integrated DC KW-HRS	91.00866	Manufacturer Fuel Economy	39.972706
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Drive Trace Energy Economy Rating	0.25																		
Drive Trace Inertia Work Ratio Rating	99.99																		
Integrated DC KW-HRS	91.00866																		
Manufacturer Fuel Economy	39.972706																		
Charge Depleting Bag/Phase #5																			
<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>7.496</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>1.99</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0.62</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>3.14</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.17426</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>29.0056029</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.496	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	1.99	Drive Trace Energy Economy Rating	0.62	Drive Trace Inertia Work Ratio Rating	3.14	Integrated DC KW-HRS	2.17426	Manufacturer Fuel Economy	29.0056029
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Drive Trace Absolute Speed Change Rating	1.99																		
Drive Trace Energy Economy Rating	0.62																		
Drive Trace Inertia Work Ratio Rating	3.14																		
Integrated DC KW-HRS	2.17426																		
Manufacturer Fuel Economy	29.0056029																		
Charge Depleting Bag/Phase #6																			

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.243
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	5.25
Drive Trace Energy Economy Rating	0.43
Drive Trace Inertia Work Ratio Rating	6.88
Integrated DC KW-HRS	3.23534
Manufacturer Fuel Economy	31.585863

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.492
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	3.45
Drive Trace Energy Economy Rating	2.52
Drive Trace Inertia Work Ratio Rating	5.96
Integrated DC KW-HRS	2.17003
Manufacturer Fuel Economy	28.964628

Charge Depleting Bag/Phase #8

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	47.529
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	99.99
Drive Trace Energy Economy Rating	-0.25
Drive Trace Inertia Work Ratio Rating	43.45
Integrated DC KW-HRS	19.0524749
Manufacturer Fuel Economy	19.05237

Manufacturer Test Comments

Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). 2-cycle MCT UBE energy = 126134.24

Certification Summary Information Report

Test Group		VVTPT00.0VF9				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	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Fuel Properties			
Fuel Batch ID	1	Fuel Calibration Number	1
Test Fuel Type	62 - Electricity	Fuel Batch Calibration Date	06/01/2022
Fuel Batch Calibration Effective Date	06/01/2022	Fuel Batch Calibration Ineffective Date	08/25/2023
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	--
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VVTPT00.0VF9			Evaporative/Refueling Family			--		
Consolidated List of Standards										
Exhaust Standards										
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			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	
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV		
Fuel		Electricity			Test Procedure			Charge Depleting Highway		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	
Exhaust Standards										
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV		
Fuel		Electricity			Test Procedure			Cold CO		
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		VVTPT00.0VF9			Evaporative/Refueling Family			--		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 0		
Fuel		Electricity			Test Procedure			Charge Depleting UDDS		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV		
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	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 0		
Fuel		Electricity			Test Procedure			Cold CO		
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		VVTPT00.0VF9			Evaporative/Refueling Family			--		
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV		
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		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV		
Fuel		Electricity			Test Procedure			US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			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	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	

Certification Summary Information Report

Test Group		VVTPT00.0VF9			Evaporative/Refueling Family			--		
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 3 Bin 0		
Fuel		Electricity			Test Procedure			Charge Depleting Highway		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	0	
150,000 miles	CREE	--	--	--	--	--	--	0	0	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			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	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV		
Fuel		Electricity			Test Procedure			CVS 75 and later (w/o can. load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std	
150,000 miles	CO	--	--	--	--	--	--	0	0	
Cert Region		Federal			Cert/In-Use Code			Cert		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			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	

Certification Summary Information Report

Test Group		VVTPT00.0VF9			Evaporative/Refueling Family			--			
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert			
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California ZEV			
Fuel		Electricity			Test Procedure			Charge Depleting UDDS			
Useful Life		Emission Name		Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles		CO		--	--	--	--	--	--	0	0
150,000 miles		CREE		--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group	VVTPT00.0VF9	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	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		

Certification Summary Information Report

Test Group	VVTPT00.0VF9	Evaporative/Refueling Family	
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125

Certification Summary Information Report

Test Group		VVTPT00.0VF9	Evaporative/Refueling Family		--
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
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	
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	