



December 4, 2025

Mr. Dan Cullen
Vehicle Programs and Compliance Division
Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, MI 48105

Subject: Request to carry-over 2026MY test group TVTPT00.0C89 certification to 2027MY test group VVTPT00.0C89

Dear Mr. Cullen,

Enclosed please find the 2027 Model Year VinFast Part 1 certification application for test group VVTPT00.0C89. Test group VVTPT00.0C89 is a carry-over from the 2026 model year test group TVTPT00.0C89 for VF8 models.

VinFast believes that test group VVTPT00.0C89 complies with all applicable regulations contained in 40 CFR, and Title 13 of The California Code of Regulations, including the provisions of 40 CFR Parts 85, 86, and 600.

Vehicle Category:	Light Duty Vehicle <8500 lbs GVW
Durability Group:	VVTPEEVNNL89
Test Group:	VVTPT00.0C89
OBD Group:	NA
Applicable Standards:	Federal T3B0, California ZEV
Carline covered by this certificate:	VinFast VF8

Your review and issuance of The Certificate of Conformity will be greatly appreciated. If you have any questions, please contact me or Mac Yousry (714 974 3708) of Global Vehicle Services Corp.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Pham' followed by a stylized flourish.

Pham Thi Anh Hong
Homologation Director
VinFast Trading and Production JSC



EPA PART 1 APPLICATION

VINFAST TRADING AND PRODUCTION JOINT
STOCK COMPANY
(VINFAST)
2027 MODEL YEAR

TEST GROUP: VVTPT00.0C89

DURABILITY GROUP: VVTPEEVNNL89

All electric vehicle

Vehicle Class: Light duty vehicle LDV (LDT) (GVW<8000 lbs.)

Federal exhaust and evaporative emission standards: T3-BIN0 (Tier 3 Compliant)

California exhaust and evaporative emission standards: LEVIII-ZEV

Test vehicle: C03/C56/CAN001/Configuration: 0

Carlines Covered: VF8

Requested response date: Jan. 20, 2026

Manufacturer contact name: Pham Thi Anh Hong
Telephone: (+84) 945 968119
email: v.hongpta@vinfast.vn

Dec. 4, 2025

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1. Correspondence and Communications

1.1 Company Address

VinFast Trading and Production Joint Stock Company
Dinh Vu - Cat Hai Economic Zone
Cat Hai Island Cat Hai Town
Cat Hai District
Hai Phong City, Vietnam

1.2 Primary contacts

For questions call:

Pham Thi Anh Hong
U.S. Homologation Manager
(+84) 945 968119
v.hongpta@vinfast.vn

Mac Yousry
2023/24MY Certification Consultant
Global Vehicle Services Corporation
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US agent of service as required by 86.1844(d)(17)
Aleksandar Krezovic
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VinFast Auto, LLC
12777 W. Jefferson Blvd., Suite 101-A
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949-889-6427
Aleks.krezovic@vinfastauto.com

2. Durability Group

2.1. Description

All vehicles contained in this durability group are all-electric and equipped with the same motors and inverters.

All vehicles contained in this durability group are equipped with the same battery technology.

The motors used in all variants of the VF8 are identical. Each motor in VF8 Plus has a 150 kW output. Each motor in the VF8 Eco and VF8 Plus Base have a 130 kW output.

All vehicles are all-wheel-drive with one motor located in front and one motor in the rear. All are equipped with an on-board-charger (OBC).

Name:	VVTPEEVNNL89
Engine type:	Electric (3-Phase AC permanent magnet synchronous motor)
Fuel used:	Electricity
Basic fuel metering system:	Electric
Catalyst construction and location:	NA
Precious metals in catalyst:	NA
Precious metal loading:	NA
Range of catalyst grouping statistics:	NA

3.0. Evaporative/Refueling Family

3.1. Description

The vehicles are all-electric and not equipped with an evaporative/refueling emission control system

4.0. Durability information

4.1. Durability group description

All vehicles contained in this durability group are all electric and, based on good engineering judgment, will meet all applicable exhaust and evaporative emission standards throughout their useful life.

The VF8 vehicle's propulsion systems consist of a High Voltage Battery Pack, Electric Motor/Inverter and Gearbox. The electric motor is connected directly to the rear axle.

5.0. Test group

5.1. Description

The VF8 has three variants, Plus, Eco, and Base. The difference in the variants is in available features. The Plus variant represents the higher trim variant.

The VF8 models are multipurpose passenger vehicles. The emission data vehicle (EDV) tested, the VF8 Plus variant, represents the worst-case vehicle configuration in terms of projected range.

Electric motor:	3-Phase AC permanent magnet synchronous motor	
Electric motor power:	VF8 Eco:	130 kW (260 kW total)
	VF8 Base:	130 kW (260 kW total)
	VF8 Plus:	150 kW (300 kW total)
Operating voltage:	VF8:	403 V
Battery capacity:	VF8 =	
Battery technology:		
Vehicle class:	LDV	
Sales regions:	Federal and California	
Federal emission standard:	Tier 3 - BIN 0 (T3B0)	
California emission standard:	ZEV	

5.2. Test locations

5.2.1 - Mileage accumulation

Vehicle mileage was accumulated in accordance with the EPA SRC cycle.

5.2.2 - Coast down

5.2.3. - All-Electric-Range

5.3. Test procedures

5.3.1. - Coast down

Coast down test for road load data acquisition was done in accordance to SAE J2263.

5.3.2 - All-Electric-Range

All electric range testing was performed at the FEV test laboratory in accordance with SAE J1634 provisions using a 65 mph speed for the constant speed cycles.

5.4. Test results

5.4.1 - Coastdown

5.4.2 - All-Electric-Range

5.5. Labels

5.5.1. Vehicle Emission Control System (VEC)

Located under the hood.

VEHICLE EMISSION CONTROL INFORMATION	
VF logo	VINFAST TRADING AND PRODUCTION JOINT STOCK COMPANY

TEST GROUP: VVTPT00.0C89
MOTOR: AC SYNCHRONOUS PERMANENT MAGNET
THIS VEHICLE CONFORMS TO US EPA FEDERAL TIER 3 BIN 0 AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 2027 MODEL YEAR ZEV LIGHT DUTY TRUCK

5.5.2 Fuel economy label

Certification Summary Information Report

Manufacturer	VinFast Trading and Production Joint Stock Company	Manufacturer Code	VTP
Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	12/11/2025 02:22:30 PM
Model Year	2027		

Test Group Information

CSI Type	New	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDT4
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	VVTPEEVNNL89	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	--	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	--
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VVTPT00.0C89
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Electric vehicle		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group		VVTPT00.0C89		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	2 - VF 8 Plus	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No				
VinFast Trading and Production Joint Stock Company	1 - Hai Phong manufacturing plant	2 - VF 8 Plus	Federal	All Wheel Drive	Automatic	1	No				
VinFast Trading and Production Joint Stock Company	1 - Hai Phong manufacturing plant	1 - VF 8 Eco	Federal	All Wheel Drive	Automatic	1	No				
VinFast Trading and Production Joint Stock Company	1 - Hai Phong manufacturing plant	1 - VF 8 Eco	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No				
Engine Description											
Hybrid Type		--		Hybrid Description		--					
Engine Type		--		Mfr Engine Description		--					
Engine Block Arrangement		--		Mfr Engine Block Arrangement Description		--					
Camless Valvetrain Indicator		--		Oil Viscosity/Classification							
Number of Cylinders/Rotors		--		Mechanically Variable Compression Ratio Indicator		--					
After Treatment Device(s) (ATD)											
Mfr After Treatment Device (ATD) Comments		--									
Direct Ozone Reduction (DOR) Device		--									
Mfr Emission Control Device Comments		--									
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	VVTPT00.0C89	Evaporative/Refueling Family	--
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargable Energy Storage System	Battery(s)	Rechargable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	403	Battery Energy Capacity	231.7
Battery Specific Energy	172.8	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)	2		
Motor/Generator Type 1	AC 3 Phase Permanent Magnet	Rated Motor/Generator Power	300
Motor/Generator Type 2	AC 3 Phase Permanent Magnet	Rated Motor/Generator Power	260
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	VVTPT00.0C89	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	C-03 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	PVTPT00.0C89	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2023								
Vehicle Model									
Represented Test Vehicle Make	VinFast	Represented Test Vehicle Model	VF 8 Eco						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	80	Odometer Correction Factor	1.01						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	CATL	Rated Horsepower	348						
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)	5413	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	6406	N/V Ratio	125.3						
Axle Ratio	9.99								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group		VVTPT00.0C89			Evaporative/Refueling Family		--	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	34.62	0.4329	0.02193	-5.18	0.0048	0.02185	14.8	
Cold CO	38.08	0.4762	0.02412	-11.82	-0.1447	0.02435	N/A	
US06	34.62	0.4329	0.02193	-5.18	0.0048	0.02185	N/A	
Emission Control Device Comments		BEV						
Manufacturer Test Vehicle Comments		VF8 Eco _ 5-cycle BEV MCT _ 2017 SAE J1634						

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086965	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/27/2023	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	3326	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	242.9	Recharge Event Energy (kiloWatt-hours)	117.788
Charge Depleting Range (Calculated miles)	334.56	Charge Depleting Range (Actual miles)	334.56
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	334.56
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)		334.56	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		26.99	
Drive Trace Energy Economy Rating		7.307	
Drive Trace Inertia Work Ratio Rating		2.463	
Integrated DC KW-HRS		117.788	
Manufacturer Fuel Economy		95.73	
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		87.7	

Certification Summary Information Report

Test Group		VVTPT00.0C89				Evaporative/Refueling Family				--		
Manufacturer Test Comments		Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). Confirmatory test at EPA AC Recharge Energy = 117788.4 Wh / DC Energy data HWFE1 = 279.26 Wh/mi; HWFE2 = 261.6 Wh/mi; HWFE average = 270.43 Wh/mi; Weighted HWFE = 270.43 Wh/mi ; HWFE1 = 2868 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	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	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

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Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Manufacturer Test Comments	Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). Stand-alone US06 DC energy consumption Phase 1 (Highway) = 351.01 Wh/mi; Phase 2 (City) = 407.96 Wh/mi		

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086967	Test Procedure	85 - Charge Depleting SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/04/2023	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	2398	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)	115.542
Charge Depleting Range (Calculated miles)	3.596	Charge Depleting Range (Actual miles)	3.596
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	3.596
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)		3.596	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		3.56	
Drive Trace Energy Economy Rating		1.7	
Drive Trace Inertia Work Ratio Rating		3.61	
Integrated DC KW-HRS		115.542	
Manufacturer Fuel Economy		110.08	
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		48.24	

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Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Manufacturer Test Comments	Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). Cold charge depletion DC energy consumption Phase 1 = 572.45 Wh/mi; Phase 3 = 485.24 Wh/mi; Total charge depleting energy consumption = 538.238 Wh/mi		

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086969	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/20/2023	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	2953	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)	115.542
Charge Depleting Range (Calculated miles)	379	Charge Depleting Range (Actual miles)	379
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	379
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)		379	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		3.05	
Drive Trace Energy Economy Rating		2.11	
Drive Trace Inertia Work Ratio Rating		4.79	
Integrated DC KW-HRS		115.542	
Manufacturer Fuel Economy		99	
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		87.7	

Certification Summary Information Report

Test Group		VVTPT00.0C89				Evaporative/Refueling Family				--		
Manufacturer Test Comments		Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65) Standalone FTP AC Recharge Energy 115542 Wh / DC Energy data UDDS1 = 271.46 Wh/mi; UDDS2 = 224.05 Wh/mi; UDDS3 = 260.77 Wh/mi; UDDS4 = 221.50 Wh/mi; UDDS weighted = 244.44 Wh/mi; UDDS1 = 976.17 Wh DC UBE = 89948.67 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	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	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086970	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/20/2023	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	2968	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)	115.542
Charge Depleting Range (Calculated miles)	340	Charge Depleting Range (Actual miles)	340
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	340
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)		340.27	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		2.9	
Drive Trace Energy Economy Rating		0.29	
Drive Trace Inertia Work Ratio Rating		3.5	
Integrated DC KW-HRS		115.542	
Manufacturer Fuel Economy		89	
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		87.7	

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Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086971	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/27/2023	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	3326	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	242.9	Recharge Event Energy (kiloWatt-hours)	117.788
Charge Depleting Range (Calculated miles)	374.76	Charge Depleting Range (Actual miles)	374.76
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	374.76
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)		374.76	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		26.99	
Drive Trace Energy Economy Rating		7.307	
Drive Trace Inertia Work Ratio Rating		2.463	
Integrated DC KW-HRS		117.788	
Manufacturer Fuel Economy		107.24	
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		87.7	

Certification Summary Information Report

Test Group		VVTPT00.0C89				Evaporative/Refueling Family				--		
Manufacturer Test Comments		Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). Confirmatory test at EPA AC Recharge Energy 117788 Wh / DC Energy data UDDS1 = 293.15 Wh/mi; UDDS2 = 250.4 Wh/mi; UDDS3 = 235.56 Wh/mi; UDDS4 = 234.45 Wh/mi; UDDS weighted = 253.39 Wh/mi; UDDS1 = 2184 Wh DC UBE = 90476 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	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	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10087190	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/27/2023	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	3326	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	242.9	Recharge Event Energy (kiloWatt-hours)	117.788
Charge Depleting Range (Calculated miles)	374.8	Charge Depleting Range (Actual miles)	374.8
Charge Depleting Range Highway (Calculated miles)	334.6	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	256
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)		7.45	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		3.72	
Drive Trace Energy Economy Rating		3.194	
Drive Trace Inertia Work Ratio Rating		5.301	
Integrated DC KW-HRS		2.184	
Manufacturer Fuel Economy		29.315436	
System End State of Charge Watt-hours		0	
System Start State of Charge Watt-hours		87.7	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--																
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.27</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>5.75</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>1.202</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>7.485</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.868</td></tr><tr><td>Manufacturer Fuel Economy</td><td>27.925998</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.27	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	5.75	Drive Trace Energy Economy Rating	1.202	Drive Trace Inertia Work Ratio Rating	7.485	Integrated DC KW-HRS	2.868	Manufacturer Fuel Economy	27.925998		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	10.27																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	5.75																		
Drive Trace Energy Economy Rating	1.202																		
Drive Trace Inertia Work Ratio Rating	7.485																		
Integrated DC KW-HRS	2.868																		
Manufacturer Fuel Economy	27.925998																		
Charge Depleting Bag/Phase #3																			
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.48</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>7.79</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>6.764</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>10.751</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.873</td></tr><tr><td>Manufacturer Fuel Economy</td><td>25.040106</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.48	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	7.79	Drive Trace Energy Economy Rating	6.764	Drive Trace Inertia Work Ratio Rating	10.751	Integrated DC KW-HRS	1.873	Manufacturer Fuel Economy	25.040106		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.48																		
Carbon-Related Exhaust Emissions	0																		
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Drive Trace Energy Economy Rating	6.764																		
Drive Trace Inertia Work Ratio Rating	10.751																		
Integrated DC KW-HRS	1.873																		
Manufacturer Fuel Economy	25.040106																		
Charge Depleting Bag/Phase #4																			
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>215.96</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>73.029</td></tr><tr><td>Manufacturer Fuel Economy</td><td>33.815984</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	215.96	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	73.029	Manufacturer Fuel Economy	33.815984		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	215.96																		
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	73.029																		
Manufacturer Fuel Economy	33.815984																		
Charge Depleting Bag/Phase #5																			
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.48</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>2.66</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>2.874</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>4.347</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.762</td></tr><tr><td>Manufacturer Fuel Economy</td><td>23.5561497</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.48	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	2.66	Drive Trace Energy Economy Rating	2.874	Drive Trace Inertia Work Ratio Rating	4.347	Integrated DC KW-HRS	1.762	Manufacturer Fuel Economy	23.5561497		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.48																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	2.66																		
Drive Trace Energy Economy Rating	2.874																		
Drive Trace Inertia Work Ratio Rating	4.347																		
Integrated DC KW-HRS	1.762																		
Manufacturer Fuel Economy	23.5561497																		
Charge Depleting Bag/Phase #6																			

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--																
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.26</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>5.2</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>1.06</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>7.297</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.684</td></tr><tr><td>Manufacturer Fuel Economy</td><td>26.159844</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.26	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	5.2	Drive Trace Energy Economy Rating	1.06	Drive Trace Inertia Work Ratio Rating	7.297	Integrated DC KW-HRS	2.684	Manufacturer Fuel Economy	26.159844		
	Test Result/Emission Name	Unrounded Test Result																	
	Actual Distance Driven (miles)	10.26																	
	Carbon-Related Exhaust Emissions	0																	
	Drive Trace Absolute Speed Change Rating	5.2																	
	Drive Trace Energy Economy Rating	1.06																	
	Drive Trace Inertia Work Ratio Rating	7.297																	
	Integrated DC KW-HRS	2.684																	
	Manufacturer Fuel Economy	26.159844																	

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.43
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.71
Drive Trace Energy Economy Rating	1.871
Drive Trace Inertia Work Ratio Rating	2.463
Integrated DC KW-HRS	1.742
Manufacturer Fuel Economy	23.445491

Charge Depleting Bag/Phase #8

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	13.04
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	4.333
Manufacturer Fuel Economy	33.228527

Manufacturer Test Comments

Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). 5-Cycle. Confirmatory test at EPA DC UBE = 90476 Wh

Certification Summary Information Report

Test Group		VVTPT00.0C89				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	VVTPT00.0C89	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	C-56 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	PVTPT00.0C89	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2023							
Vehicle Model								
Represented Test Vehicle Make	VinFast	Represented Test Vehicle Model	VF 8 Plus					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	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	68	Odometer Correction Factor	1.01					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
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)	5557	Equivalent Test Weight (pounds)	6000					
GVWR (lbs)	6549	N/V Ratio	126					
Axle Ratio	9.99							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group		VVTPT00.0C89			Evaporative/Refueling Family		--	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	42.94	0.3629	0.02412	-2.31	-0.076	0.0236	16.2	
Cold CO	47.23	0.3992	0.02653	-8.51	-0.2706	0.02723	N/A	
US06	42.94	0.3629	0.02412	-2.31	-0.076	0.0236	N/A	
Emission Control Device Comments		BEV						
Manufacturer Test Vehicle Comments		VF8 Plus _ 5-cycle BEV MCT _ 2017 SAE J1634						

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086960	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/01/2023	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	2934	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)	178.729
Charge Depleting Range (Calculated miles)	345	Charge Depleting Range (Actual miles)	345
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	345
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)		345.5	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		11.51	
Drive Trace Energy Economy Rating		0.92	
Drive Trace Inertia Work Ratio Rating		24.16	
Integrated DC KW-HRS		178.729	
Manufacturer Fuel Economy		91	
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		87.7	

Certification Summary Information Report

Test Group		VVTPT00.0C89				Evaporative/Refueling Family				--		
Manufacturer Test Comments		Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65) AC Recharge Energy 178729 Wh / DC Energy data UDDS1 = 297.87 Wh/mi; UDDS2 = 267.58 Wh/mi; UDDS3 = 254.4 Wh/mi; UDDS4 = 254.03 Wh/mi; UDDS weighted = 268.47 Wh/mi; UDDS1 = 2237.0 Wh DC UBE = 89707.73 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	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	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086961	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/01/2023	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	2934	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)	178.729
Charge Depleting Range (Calculated miles)	313	Charge Depleting Range (Actual miles)	313
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	313
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)		313.19	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		11.51	
Drive Trace Energy Economy Rating		0.92	
Drive Trace Inertia Work Ratio Rating		24.16	
Integrated DC KW-HRS		178.729	
Manufacturer Fuel Economy		82	
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		87.7	

Certification Summary Information Report

Test Group		VVTPT00.0C89			Evaporative/Refueling Family				--			
Manufacturer Test Comments		Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65) AC Recharge Energy = 178729 Wh / DC Energy data HWFE1 = 291.75 Wh/mi; HWFE2 = 281.12 Wh/mi; HWFE average = 286.44 Wh/mi; Weighted HWFE = 286.44 Wh/mi ; HWFE1 = 3005.61 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	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	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086962	Test Procedure	83 - Charge Depleting US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/01/2023	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	2398	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)	178.729
Charge Depleting Range (Calculated miles)	1.77	Charge Depleting Range (Actual miles)	1.77
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	1.77
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)		1.77	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		2.44	
Drive Trace Energy Economy Rating		1.1	
Drive Trace Inertia Work Ratio Rating		2.37	
Integrated DC KW-HRS		178.729	
Manufacturer Fuel Economy		87.46	
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		48.24	

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Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086963	Test Procedure	85 - Charge Depleting SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/01/2023	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	2432	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)	178.729
Charge Depleting Range (Calculated miles)	3.58	Charge Depleting Range (Actual miles)	3.58
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	3.58
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)		3.58	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		1.49	
Drive Trace Energy Economy Rating		1.19	
Drive Trace Inertia Work Ratio Rating		2.5	
Integrated DC KW-HRS		178.729	
Manufacturer Fuel Economy		104.03	
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		48.24	

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Manufacturer Test Comments	Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). SC03 UBE = 1159.66 Wh Bag 1 = 323.95 Wh		

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10086964	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/01/2023	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	2771	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)	178.729
Charge Depleting Range (Calculated miles)	14.9	Charge Depleting Range (Actual miles)	14.9
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	14.9
Number of Charge Depleting Bags/Phases Conducted	1	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		14.911	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		5.13	
Drive Trace Energy Economy Rating		3.78	
Drive Trace Inertia Work Ratio Rating		27.89	
Integrated DC KW-HRS		178.729	
Manufacturer Fuel Economy		58.94	
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		87.7	

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Manufacturer Test Comments	Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65). Cold 2-UDDS DC energy consumption Phase 1 = 607.95 Wh/mi; Phase 3 = 522.24 Wh/mi; Total charge depleting energy consumption = 571.747 Wh/mi		

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	PVTP10087187	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/01/2023	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	2934	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)	178.729
Charge Depleting Range (Calculated miles)	345.3	Charge Depleting Range (Actual miles)	345.3
Charge Depleting Range Highway (Calculated miles)	313	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	235
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)		7.51	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		4.99	
Drive Trace Energy Economy Rating		4.58	
Drive Trace Inertia Work Ratio Rating		8.79	
Integrated DC KW-HRS		2.237	
Manufacturer Fuel Economy		29.762	
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		87.7	

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Charge Depleting Bag/Phase #2			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.302	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		14.58	
Drive Trace Energy Economy Rating		4.71	
Drive Trace Inertia Work Ratio Rating		18.84	
Integrated DC KW-HRS		3.005608	
Manufacturer Fuel Economy		29.144	
Charge Depleting Bag/Phase #3			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.501	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		7.66	
Drive Trace Energy Economy Rating		6.33	
Drive Trace Inertia Work Ratio Rating		12.53	
Integrated DC KW-HRS		2.0071175	
Manufacturer Fuel Economy		26.738	
Charge Depleting Bag/Phase #4			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		179.073	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		60.96	
Drive Trace Energy Economy Rating		0.01	
Drive Trace Inertia Work Ratio Rating		99.99	
Integrated DC KW-HRS		63.06951	
Manufacturer Fuel Economy		35.211	
Charge Depleting Bag/Phase #5			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.45	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		4.46	
Drive Trace Energy Economy Rating		3.74	
Drive Trace Inertia Work Ratio Rating		7.4	
Integrated DC KW-HRS		1.89528	
Manufacturer Fuel Economy		25.445	

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Charge Depleting Bag/Phase #6			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.222	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		8.87	
Drive Trace Energy Economy Rating		1.86	
Drive Trace Inertia Work Ratio Rating		10.32	
Integrated DC KW-HRS		2.8736086	
Manufacturer Fuel Economy		28.089	
Charge Depleting Bag/Phase #7			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.479	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		3.62	
Drive Trace Energy Economy Rating		2.83	
Drive Trace Inertia Work Ratio Rating		6.3	
Integrated DC KW-HRS		1.89989	
Manufacturer Fuel Economy		25.381	
Charge Depleting Bag/Phase #8			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		35.718	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		99.99	
Drive Trace Energy Economy Rating		-0.11	
Drive Trace Inertia Work Ratio Rating		88.35	
Integrated DC KW-HRS		12.664174	
Manufacturer Fuel Economy		95.05	
Manufacturer Test Comments		Test results based on 2017 SAE J1634 Multi-cycle test procedure (MCT-65) DC UBE = 89707.73 Wh	

Certification Summary Information Report

Test Group		VVTPT00.0C89			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	0	Pass
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	CO	0.0	--	--	--	0	--	0	0	Pass
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	VVTPT00.0C89	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	CAN-001 / 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 8 Plus						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	15	Odometer Correction Factor	1						
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	348						
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)	5413	Equivalent Test Weight (pounds)	6000						
GVWR (lbs)	6406	N/V Ratio	125.6						
Axle Ratio	9.99								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group		VVTPT00.0C89			Evaporative/Refueling Family		--	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	42.94	0.3629	0.02412	-1.79	-0.1175	0.0242	16.2	
Cold CO	47.23	0.3992	0.02653	-7.08	-0.2845	0.02708	N/A	
US06	42.94	0.3629	0.02412	-1.79	-0.1175	0.0242	N/A	
Emission Control Device Comments		BEV						
Manufacturer Test Vehicle Comments		VF8 Plus_ 260 kW _ 5-cycle BEV MCT _ 2017 SAE J1634						

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	RVTP10086951	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/26/2023	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	3799	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)	104.108
Charge Depleting Range (Calculated miles)	345	Charge Depleting Range (Actual miles)	345
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	345
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)		345.06	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		8.03	
Drive Trace Energy Economy Rating		0.52	
Drive Trace Inertia Work Ratio Rating		12.15	
Integrated DC KW-HRS		88.398	
Manufacturer Fuel Economy		128	
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		87.7	

Certification Summary Information Report

Test Group		VVTPT00.0C89				Evaporative/Refueling Family				--		
Manufacturer Test Comments		Test results based on 2017 SAE J1634 2-cycle test procedure (MCT-65) DC energy consumption UDDS1 = 290.77 Wh/mi; UDDS2 = 261.36 Wh/mi; UDDS3 = 251.55 Wh/mi; UDDS4 = 253.01 Wh/mi; UDDS weighted = 264.17 Wh/mi; UDDS1 DC discharge energy= 2173.50 Wh MCT UBE energy = 88398.45 Wh AC Recharge Energy 104108 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	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	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	RVTP10086952	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/26/2023	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	3799	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)	104.108
Charge Depleting Range (Calculated miles)	315	Charge Depleting Range (Actual miles)	315
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	315
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)		314.99	
Carbon Monoxide		0	
Carbon dioxide		0	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		8.03	
Drive Trace Energy Economy Rating		0.52	
Drive Trace Inertia Work Ratio Rating		16.15	
Integrated DC KW-HRS		88.398	
Manufacturer Fuel Economy		120	
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		87.7	

Certification Summary Information Report

Test Group		VVTPT00.0C89				Evaporative/Refueling Family				--		
Manufacturer Test Comments		Test results based on 2017 SAE J1634 2-cycle test procedure (MCT-65) DC energy consumption HWFE1 = 283.57 Wh/mi; HWFE2 = 277.72 Wh/mi; HWFE average = 280.64 Wh/mi AC Recharge Energy = 108104 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	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	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
Test #	RVTP10087189	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/26/2023	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	3799	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)	104.108
Charge Depleting Range (Calculated miles)	345.1	Charge Depleting Range (Actual miles)	345.1
Charge Depleting Range Highway (Calculated miles)	315	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	232
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		7.475	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		2.74	
Drive Trace Energy Economy Rating		1.47	
Drive Trace Inertia Work Ratio Rating		4.62	
Integrated DC KW-HRS		2.17354	
Manufacturer Fuel Economy		29.077458	
System End State of Charge Watt-hours		0	
System Start State of Charge Watt-hours		87.7	
Charge Depleting Bag/Phase #2			

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--																
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.23</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>1.09</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.82</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>1.67</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.90099</td></tr><tr><td>Manufacturer Fuel Economy</td><td>28.357673</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.23	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	1.09	Drive Trace Energy Economy Rating	-0.82	Drive Trace Inertia Work Ratio Rating	1.67	Integrated DC KW-HRS	2.90099	Manufacturer Fuel Economy	28.357673		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	10.23																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	1.09																		
Drive Trace Energy Economy Rating	-0.82																		
Drive Trace Inertia Work Ratio Rating	1.67																		
Integrated DC KW-HRS	2.90099																		
Manufacturer Fuel Economy	28.357673																		
Charge Depleting Bag/Phase #3																			
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.465</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>2.3</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>1.52</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>3.62</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.95104</td></tr><tr><td>Manufacturer Fuel Economy</td><td>26.135833</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.465	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	2.3	Drive Trace Energy Economy Rating	1.52	Drive Trace Inertia Work Ratio Rating	3.62	Integrated DC KW-HRS	1.95104	Manufacturer Fuel Economy	26.135833		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	7.465																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	2.3																		
Drive Trace Energy Economy Rating	1.52																		
Drive Trace Inertia Work Ratio Rating	3.62																		
Integrated DC KW-HRS	1.95104																		
Manufacturer Fuel Economy	26.135833																		
Charge Depleting Bag/Phase #4																			
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>175.295</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>44.46</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>0.15</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>88.87</td></tr><tr><td>Integrated DC KW-HRS</td><td>61.58077</td></tr><tr><td>Manufacturer Fuel Economy</td><td>35.1297926</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	175.295	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	44.46	Drive Trace Energy Economy Rating	0.15	Drive Trace Inertia Work Ratio Rating	88.87	Integrated DC KW-HRS	61.58077	Manufacturer Fuel Economy	35.1297926		
Test Result/Emission Name	Unrounded Test Result																		
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Carbon-Related Exhaust Emissions	0																		
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Drive Trace Inertia Work Ratio Rating	88.87																		
Integrated DC KW-HRS	61.58077																		
Manufacturer Fuel Economy	35.1297926																		
Charge Depleting Bag/Phase #5																			
	<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.493</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>4.55</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>2.61</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>7.59</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.88488</td></tr><tr><td>Manufacturer Fuel Economy</td><td>25.155211</td></tr></table>	Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.493	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	4.55	Drive Trace Energy Economy Rating	2.61	Drive Trace Inertia Work Ratio Rating	7.59	Integrated DC KW-HRS	1.88488	Manufacturer Fuel Economy	25.155211		
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Drive Trace Inertia Work Ratio Rating	7.59																		
Integrated DC KW-HRS	1.88488																		
Manufacturer Fuel Economy	25.155211																		
Charge Depleting Bag/Phase #6																			

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--																
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>10.25</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>6.9</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>0.56</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>9.16</td></tr><tr><td>Integrated DC KW-HRS</td><td>2.84645</td></tr><tr><td>Manufacturer Fuel Economy</td><td>27.770243</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.25	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	6.9	Drive Trace Energy Economy Rating	0.56	Drive Trace Inertia Work Ratio Rating	9.16	Integrated DC KW-HRS	2.84645	Manufacturer Fuel Economy	27.770243		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	10.25																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	6.9																		
Drive Trace Energy Economy Rating	0.56																		
Drive Trace Inertia Work Ratio Rating	9.16																		
Integrated DC KW-HRS	2.84645																		
Manufacturer Fuel Economy	27.770243																		
Charge Depleting Bag/Phase #7																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>7.47</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>4.53</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>2.94</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>6.96</td></tr><tr><td>Integrated DC KW-HRS</td><td>1.89001</td></tr><tr><td>Manufacturer Fuel Economy</td><td>25.3013386</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.47	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	4.53	Drive Trace Energy Economy Rating	2.94	Drive Trace Inertia Work Ratio Rating	6.96	Integrated DC KW-HRS	1.89001	Manufacturer Fuel Economy	25.3013386		
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Integrated DC KW-HRS	1.89001																		
Manufacturer Fuel Economy	25.3013386																		
Charge Depleting Bag/Phase #8																			
<table><tr><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>Actual Distance Driven (miles)</td><td>37.226</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>Drive Trace Absolute Speed Change Rating</td><td>99.99</td></tr><tr><td>Drive Trace Energy Economy Rating</td><td>-0.23</td></tr><tr><td>Drive Trace Inertia Work Ratio Rating</td><td>63.16</td></tr><tr><td>Integrated DC KW-HRS</td><td>13.17077</td></tr><tr><td>Manufacturer Fuel Economy</td><td>35.380567</td></tr></table>		Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	37.226	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	99.99	Drive Trace Energy Economy Rating	-0.23	Drive Trace Inertia Work Ratio Rating	63.16	Integrated DC KW-HRS	13.17077	Manufacturer Fuel Economy	35.380567		
Test Result/Emission Name	Unrounded Test Result																		
Actual Distance Driven (miles)	37.226																		
Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	99.99																		
Drive Trace Energy Economy Rating	-0.23																		
Drive Trace Inertia Work Ratio Rating	63.16																		
Integrated DC KW-HRS	13.17077																		
Manufacturer Fuel Economy	35.380567																		
Manufacturer Test Comments	Test results based on 2017 SAE J1634 2-cycle test procedure (MCT-65). 2 Cycle MCT UBE energy = 88398.45 Wh																		

Certification Summary Information Report

Test Group		VVTPT00.0C89				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	--	--
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		VVTPT00.0C89			Evaporative/Refueling Family			--	
Consolidated List of Standards									
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
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		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		VVTPT00.0C89			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		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		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
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

Certification Summary Information Report

Test Group		VVTPT00.0C89			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		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			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		VVTPT00.0C89			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			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
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
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
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

Certification Summary Information Report

Test Group	VVTPT00.0C89	Evaporative/Refueling Family	--
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Certification Summary Information Report

Test Group		VVTPT00.0C89	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 Region					

Certification Summary Information Report

Test Group		VVTPT00.0C89	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	

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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		