

Certification Summary Information Report

Test Group	VVVXT00.0ZVG	Evaporative/Refueling Family	--
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Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Volvo Car USA, LLC	1 - Volvo Cars of North America, LLC	296 - EX90 Twin Motor	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Volvo Car USA, LLC	1 - Volvo Cars of North America, LLC	297 - EX90 Twin Motor (21 inch Wheels)	Federal	All Wheel Drive	Automatic	1	No
Volvo Car USA, LLC	1 - Volvo Cars of North America, LLC	297 - EX90 Twin Motor (21 inch Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Volvo Car USA, LLC	1 - Volvo Cars of North America, LLC	294 - EX90 Twin Motor Performance	Federal	All Wheel Drive	Automatic	1	No
Volvo Car USA, LLC	1 - Volvo Cars of North America, LLC	294 - EX90 Twin Motor Performance	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No
Volvo Car USA, LLC	1 - Volvo Cars of North America, LLC	296 - EX90 Twin Motor	Federal	All Wheel Drive	Automatic	1	No
Volvo Car USA, LLC	1 - Volvo Cars of North America, LLC	295 - EX90 Twin Motor Performance (21 inch Wheels)	Federal	All Wheel Drive	Automatic	1	No
Volvo Car USA, LLC	1 - Volvo Cars of North America, LLC	295 - EX90 Twin Motor Performance (21 inch Wheels)	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		--	--	--	--	--	--	--	--	--	--

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SFTP LEV-III Official Test Numbers			
Test Group Fuel	FTP	US06	SC03
Electricity	--	--	--
Official Charge Depleting Test Numbers			
Test Group Fuel	UDDS	Highway	
Electricity	--	--	
Electricity	--	--	
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	718	Battery Energy Capacity	147
Battery Specific Energy	164	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	4		
Motor/Generator Type 1	PMSM	Rated Motor/Generator Power	280
Motor/Generator Type 2	PMSM	Rated Motor/Generator Power	205
Motor/Generator Type 3	AC Induction	Rated Motor/Generator Power	220
Motor/Generator Type 4	AC Induction	Rated Motor/Generator Power	130
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	Rear drive Motor PMSM = Permanent Magnet Synch Machine Front drive motor ACI		

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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	40.75	0.1404	0.02128	0.2	0.037	0.0207	13.5
Cold CO	44.82	0.1544	0.02341	0	0	0	N/A
US06	40.75	0.1404	0.02128	0.2	0.037	0.0207	N/A

Emission Control Device Comments

Electric vehicle

Manufacturer Test Vehicle Comments

Tested on 20 inch tire, covering 22 inch tire as worst case. For N/V ratio an average value is calculated. Average N/V 106.8 (Front 101.0 and Rear 112.7). Test is performed with performance SW, as worst. ETW 6000.

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Test Group	VVVXT00.0ZVG	Evaporative/Refueling Family	--
Test #	TVVX10092007	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	07/09/2025	Fuel	Electricity
Fuel Batch ID	E11	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Volvo Car Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	6414	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

PHEV/EV Charge Depleting Test Information

Recharge Event Voltage	235	Recharge Event Energy (kiloWatt-hours)	116.503
Charge Depleting Range (Calculated miles)	466.94	Charge Depleting Range (Actual miles)	466.94
Charge Depleting Range Highway (Calculated miles)	414.847	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	466.94
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)	7.442
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-3.08
Drive Trace Energy Economy Rating	-3.23
Drive Trace Inertia Work Ratio Rating	-4.86
Integrated DC KW-HRS	1.7361
Manufacturer Fuel Economy	23.328

Charge Depleting Bag/Phase #2

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Charge Depleting Bag/Phase #6																			

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Manufacturer Fuel Economy	31.017																		
Manufacturer Test Comments	Multi cycle test method used. EX90 Twin Motor tested with performance software, ETW 6000																		

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Test Group		VVVXT00.0ZVG				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	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	35.74	0.1404	0.02128	-3.9	0.037	0.0207	12.8
Cold CO	39.31	0.1544	0.02341	0	0	0	N/A
US06	35.74	0.1404	0.02128	-3.9	0.037	0.0207	N/A

Emission Control Device Comments

Electric vehicle

Manufacturer Test Vehicle Comments

Tested on 21 inch tire. For N/V ratio an average value is calculated. Average N/V 106.0 (Front 100.0 and Rear 112.0). Test is performed with performance SW, as worst. ETW 6000.

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Test Group	VVVXT00.0ZVG	Evaporative/Refueling Family	--
Test #	TVVX10092017	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	07/08/2025	Fuel	Electricity
Fuel Batch ID	E11	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	Volvo Car Corporation		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5865	Odometer Units	K
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	236	Recharge Event Energy (kiloWatt-hours)	116.44
Charge Depleting Range (Calculated miles)	486.632	Charge Depleting Range (Actual miles)	486.632
Charge Depleting Range Highway (Calculated miles)	430.059	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	486.632
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)		7.46	
Carbon-Related Exhaust Emissions		0	
Drive Trace Absolute Speed Change Rating		-1.55	
Drive Trace Energy Economy Rating		-2.46	
Drive Trace Inertia Work Ratio Rating		-2.43	
Integrated DC KW-HRS		1.6669	
Manufacturer Fuel Economy		22.345	
Charge Depleting Bag/Phase #2			

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<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>255.674</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.01</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>1.1</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.01</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>78.1906</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>30.582</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	255.674	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.01	Drive Trace Energy Economy Rating	1.1	Drive Trace Inertia Work Ratio Rating	0.01	Integrated DC KW-HRS	78.1906	Manufacturer Fuel Economy	30.582
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Drive Trace Inertia Work Ratio Rating	0.01																		
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Manufacturer Fuel Economy	30.582																		
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>7.444</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>-1.02</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-1.74</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-1.7</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>1.5571</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>20.918</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	7.444	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	-1.02	Drive Trace Energy Economy Rating	-1.74	Drive Trace Inertia Work Ratio Rating	-1.7	Integrated DC KW-HRS	1.5571	Manufacturer Fuel Economy	20.918
Test Result/Emission Name	Unrounded Test Result																		
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Carbon-Related Exhaust Emissions	0																		
Drive Trace Absolute Speed Change Rating	-1.02																		
Drive Trace Energy Economy Rating	-1.74																		
Drive Trace Inertia Work Ratio Rating	-1.7																		
Integrated DC KW-HRS	1.5571																		
Manufacturer Fuel Economy	20.918																		
Charge Depleting Bag/Phase #6																			

Certification Summary Information Report

Test Group	VVVXT00.0ZVG	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.253
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.23
Drive Trace Energy Economy Rating	-0.91
Drive Trace Inertia Work Ratio Rating	-0.11
Integrated DC KW-HRS	2.4294
Manufacturer Fuel Economy	23.695

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.469
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.09
Drive Trace Energy Economy Rating	-1.73
Drive Trace Inertia Work Ratio Rating	-0.24
Integrated DC KW-HRS	1.5546
Manufacturer Fuel Economy	20.814

Charge Depleting Bag/Phase #8

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	42.747
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.01
Drive Trace Energy Economy Rating	-0.65
Drive Trace Inertia Work Ratio Rating	0.01
Integrated DC KW-HRS	12.9085
Manufacturer Fuel Economy	30.197

Manufacturer Test Comments

Multi cycle test method used. EX90 Twin Motor (21 Inch Wheels) tested with performance software, ETW 6000

Certification Summary Information Report

Test Group		VVVXT00.0ZVG				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	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 4 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	120,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Fuel Properties			
Fuel Batch ID	E11	Fuel Calibration Number	1
Test Fuel Type	62 - Electricity	Fuel Batch Calibration Date	05/01/2020
Fuel Batch Calibration Effective Date	05/01/2020	Fuel Batch Calibration Ineffective Date	--
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	VVVXT00.0ZVG	Evaporative/Refueling Family	--						
Consolidated List of Standards									
Exhaust Standards									
Cert Region	California + CAA Section 177 states	Cert/In-Use Code	Both						
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
120,000 miles	CREE	--	--	--	--	--	--	0	0
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	Both						
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	Standard Level	Federal Tier 4 Bin 0						
Fuel	Electricity	Test Procedure	Multi-Cycle Test (MCT)						
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
120,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	CO	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group		VVVXT00.0ZVG			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 4 Bin 0	
Fuel		Electricity			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group	VVVXT00.0ZVG	Evaporative/Refueling Family	--
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours

Certification Summary Information Report

Test Group		VVVXT00.0ZVG	Evaporative/Refueling Family		--
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group	VVVXT00.0ZVG	Evaporative/Refueling Family	--
L2ULEV340	California LEV-II ULEV340	L4SULEV85	California LEV-IV SULEV85
L2LEV630	California LEV-II LEV630	L4ULEV125	California LEV-IV ULEV125
L2ULEV570	California LEV-II ULEV570	L4ULEV200	California LEV-IV ULEV200
L3LEV160	California LEV-III LEV160	L4ULEV250	California LEV-IV ULEV250
L3ULEV125	California LEV-III ULEV125	L4ULEV270	California LEV-IV ULEV270
L3ULEV70	California LEV-III ULEV70	L4ULEV40	California LEV-IV ULEV40
L3ULEV50	California LEV-III ULEV50	L4ULEV400	California LEV-IV ULEV400
L3SULEV30	California LEV-III SULEV30	L4ULEV50	California LEV-IV ULEV50
L3SULEV20	California LEV-III SULEV20	L4ULEV60	California LEV-IV ULEV60
L3LEV395	California LEV-III LEV395	L4ULEV70	California LEV-IV ULEV70
L3ULEV340	California LEV-III ULEV340	T4B170	Federal Tier 4 MDV Bin 170
L3ULEV250	California LEV-III ULEV250	T4B150	Federal Tier 4 MDV Bin 150
L3ULEV200	California LEV-III ULEV200	T4B125	Federal Tier 4 MDV Bin 125
L3SULEV170	California LEV-III SULEV170	T4B100	Federal Tier 4 MDV Bin 100
L3SULEV150	California LEV-III SULEV150	T4B85	Federal Tier 4 MDV Bin 85
L3LEV630	California LEV-III LEV630	T4B75	Federal Tier 4 MDV Bin 75
L3ULEV570	California LEV-III ULEV570	T4B70	Federal Tier 4 Bin 70
L3ULEV400	California LEV-III ULEV400	T4B65	Federal Tier 4 Bin 65
L3ULEV270	California LEV-III ULEV270	T4B60	Federal Tier 4 Bin 60
L3SULEV230	California LEV-III SULEV230	T4B55	Federal Tier 4 Bin 55
L3SULEV200	California LEV-III SULEV200	T4B50	Federal Tier 4 Bin 50
T3B160	Federal Tier 3 Bin 160	T4B45	Federal Tier 4 Bin 45
T3B125	Federal Tier 3 Bin 125	T4B40	Federal Tier 4 Bin 40
T3B110	Federal Tier 3 Transitional Bin 110	T4B35	Federal Tier 4 Bin 35
T3B85	Federal Tier 3 Transitional Bin 85	T4B30	Federal Tier 4 Bin 30
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	T4B25	Federal Tier 4 Bin 25
T3B70	Federal Tier 3 Bin 70	T4B20	Federal Tier 4 Bin 20
T3B50	Federal Tier 3 Bin 50	T4B15	Federal Tier 4 Bin 15
T3B30	Federal Tier 3 Bin 30	T4B10	Federal Tier 4 Bin 10
T3B20	Federal Tier 3 Bin 20	T4B5	Federal Tier 4 Bin 5
T3B0	Federal Tier 3 Bin 0	T4B0	Federal Tier 4 Bin 0
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395		
Transmission Type Code			
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual
A	Automatic	OT	Other
AM	Automated Manual	SA	Semi-Automatic
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)
Drive System Code			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive

Certification Summary Information Report

Test Group	VVVXT00.0ZVG	Evaporative/Refueling Family		--
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
Additional Terms and Acronyms				
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer	
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor	SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative	Trans	Transmission	