Application for Certification – Part 1

2027 Model Year Polestar 3 Rear Motor

Durability Group: VPABEEVNNBEV

Evaporative Family: Not Applicable

Test Group: VPABT00.0ZPH

Durability Group Description: Electric Vehicle / BEV / ZEV

Test Group Description: Electric Vehicle

Carlines Covered: Polestar 3 Rear Motor (20 Inch Wheels)
Polestar 3 Rear Motor (21 Inch Wheels)

Applicable Standards: Federal Tier 4 Bin 0 & California ZEV

Vehicle Classification: LDV/LT/MPV

EPA Response Date: June 15th, 2026 (week 25)

Vehicles Test & EPA Test Numbers:

VID	Config	Test	Test Number
202628	00	MCT	VPAB10092032
202628	01	MCT	VPAB10092033

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01.00.00 Communications

.01.00 Mailing Information

.01 Certification Information

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.02 Responsible official(s)

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02.00.00 Confidential Information

.01.00 Statement of confidentiality

The following sections listed below are to be kept as confidential:

- 13.00.00 Projected Sales
- 15.00.00 Fee Filling Forms

.02.00 Test vehicle selection

All variants were analyzed to determine worst-case using good engineering judgement, below is a summary table:

	Tire (F/R)	**Test Vehicle ID**	**Transmission**	**ETW**	**Config**	**Fuel**
Polestar 3 Rear Motor (20in Wheels)	255/50R20 285/45R20	202628	A1	5500	00	Electricity
Polestar 3 Rear Motor (21in Wheels)	265/45R21 295/40R21	202628	A1	5500	01	Electricity

03.00.00 Facilities, Equipment, and Test Procedures

.01.00 Test Procedure

MCT (Multi-Cycle Test) conducted at a third-party facility to SAE J1634 (version 2017).

.02.00 Battery pre-conditioning procedures

Cell manufacturers cycle the lithium-ion battery cells before they are assembled into battery modules and then battery packs. No further pre-conditioning needed.

04.00.00 (Reserved)

05.00.00 (Reserved)

06.00.00 Maintenance

.01.00 Test vehicle scheduled maintenance

Not Applicable

.02.00 Recommended customer maintenance schedule

See Service & Warranty booklet.

.03.00 Lubricants and heater fuels, if any

There are no lubricants or heater fuels that require regular maintenance during the lifetime of the vehicle.

07.00.00 Vehicle Emission Control Information (VECI) and Environmental Performance (EP) Labels

.01.00 VECI Label locations

The VECI label located on the vehicle shall be attached to the underside of the frunk as shown below.

.02.00 Sample VECI labels

POLESTAR PERFORMANCE AB
VEHICLE EMISSION CONTROL INFORMATION

Conforms to regulations	2027 MY
U.S. EPA/Canada: IT4B0 LDT	Fuel: Electric
California: ZEV LDT	Fuel: Electric

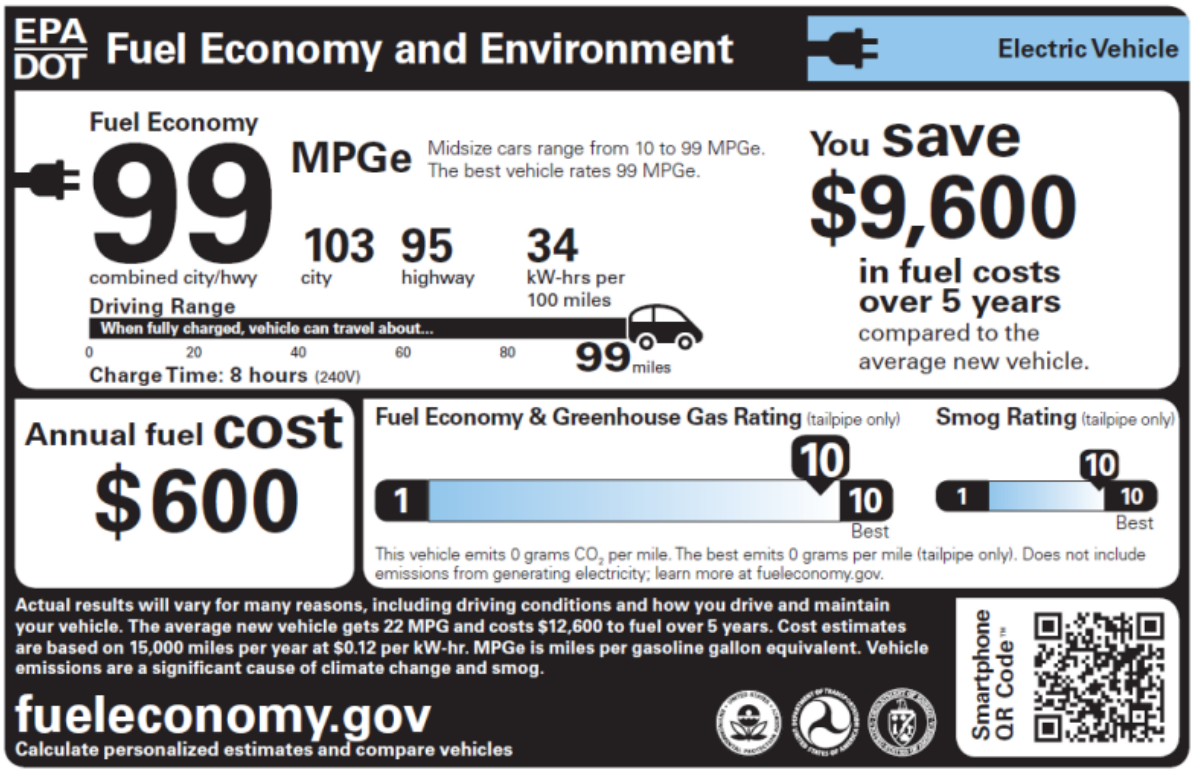
Battery Electric Vehicle
Group: VPABT00.0ZPH

Polestar 32462723

.03.00 Sample EP label

This test group adopts the Monroney Label with EPA/DOT Fuel Economy and the Environmental Performance Label information included in lieu of a standalone Environmental Performance Label.

Sample of format in use: (not the actual label for this family):



.04.00 Statement of compliance

All vehicles within this test group conform to US EPA Federal interim Tier 4 Bin 0 and State of California regulations applicable to new ZEV Light- duty vehicles. All vehicles in this test group comply with all the emission standards and related requirements of 40 CFR Subpart S.

08.00.00 General Technical Description

.01.00 Description of Propulsion System

Front Drive Unit: 1x traction motor, fixed ratio gearbox, drive inverter
Rear Drive Unit: 1x traction motor, fixed ratio gearbox, drive inverter

.02.00 Description of Motor(s)

Front Motor: Asynchronous Induction Machine
Rear Motor: Permanent Magnet Synchronous Machine

.03.00 Description of Batteries

.01 Battery charging capacity

Battery pack rated capacity for Large Pack is 147 Ah with a nominal volage of 718 V based on a constant current C/3 discharge rate

.02 Description of thermal management system

The thermal management system is liquid-cooled and liquid-heated system, consisting of an electronic water pump, a refrigerant-coolant heat exchanger, a three-way proportional water valve, and a high-voltage coolant heater.

The operation of the water pump enables heat to be transferred between the coolant and the high-voltage battery.

The heat exchanger achieves the function of cooling by exchanging heat between high-temperature coolant and low-temperature refrigerant.

The high-voltage coolant heater directly heats the coolant and regulates the heat distribution between the passenger compartment and the high-voltage battery through the water valve to achieve the heating function.

.03 Definition of end-of-life

The battery warranty for in vehicle use is 8 years or 100k miles, whichever occurs first.

.04 Description of battery disposal plan

The traction battery must only be handled by authorized technicians. As instructed in the Owner’s Manual, Consult Polestar Customer Support for information on the disposal of batteries.

.04.00 Description of Controller/Inverter

The drive inverter is used for electric propulsion and to generate power to the high voltage battery when the vehicle is braking. This includes torque control, torque limit enforcement and status monitoring. The drive inverter is an integral part of the drive unit.

.05.00 Description of Transmission

The transmission is a fixed ratio mechanical gearbox. The shift position is available on the right lever of steering wheel module. There are four shift positions - one reverse, one neutral, one drive and one park button on the top of lever. Selecting either forward or reverse enables drive current to the motor to generate the appropriate torque. In addition, the park button is used to operate the electrically actuated park brake.

.06.00 Description of climate control system

- The climate control is a 3-zone system with automatic temperature control.

- HVAC predominantly includes Defrost mode, Panel mode, and Floor mode (or any combination of these three).
- The vehicle could be remotely conditioned to a comfortable climate setpoint using a Mobile Application.
- The system consists of four controlled face vent to direct airflow around passengers.
- The recirculation door is independently controlled by the passengers.
- Auto humidity control.
- Auto/manual blower fan control.

.01 Electric Heat Pump

The heat pump system adopts special design to improve performance and reduce energy consumption.
By controlling the state of the electric valve, the circulation circuit of the refrigerant is changed to achieve the function of the heat pump.
The heat source of the heat pump system includes ambient air, HV battery, motor system and passenger cabin (or any combination of these four).
The heat pump system can operate at very low ambient temperature and directly absorb heat from the ambient air, resulting in higher system efficiency.

.02 (Reserved)

.03 Climate control system logic

HVAC software has multiple modes which can be selected based on user preference:

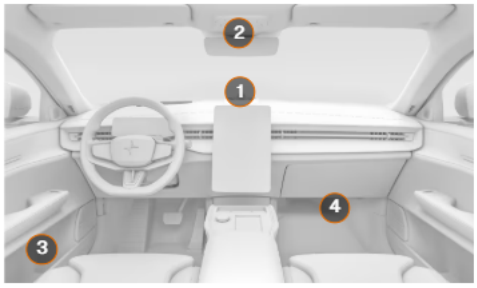
- In Manual Mode, the user has complete control on blower speed, temperature, and airflow distribution to defrost, face or feet or defrost. Recirculation of air is also manually controlled by the user.
- In Auto mode, the software provides adequate heating and cooling requests to control the temperature of both driver and passenger to the requested setpoint. In this mode the airflow distribution and the blower speeds are automatically selected to maintain the desired temperature from the screen. The software estimates the temperature of individual passengers based on the sensors listed below. Recirculation of air inside the cabin is automatically selected based on humidity level inside the cabin.

Polestar 3

Climate sensors

There are several climate sensors located inside and outside of your vehicle. These sensors help to provide a comfortable climate in the passenger compartment.

For the interior sensors to be able to perform as intended, it's important that you don't cover them.



1. Sunlight sensors on the upper side of the dashboard.
2. Humidity sensor in the rearview mirror console.
3. Passenger compartment temperature sensor under the driver door armrest.
4. Airborne particulate matter sensor on the underside of the glove compartment.

The exterior ambient temperature sensor is located in the front of the vehicle.

- Defrost or demist mode is provided to the user for a clear view while driving. During defog mode, the software supplies conditioned air towards the windshield based on the dew point calculation. If the desired mode is Defrost, the heat pump blows hot air towards the windshield to clear frost.

.04 (Reserved)

.07.00 Description of Regenerative Braking System

The vehicle can also generate current to the high voltage batteries using kinetic energy. By lightly pressing the brake pedal the vehicle’s kinetic energy is converted to electric energy which is used to charge the high voltage battery.

.01 Control logic

To maintain constant vehicle deceleration, constant brake torque at the wheels is required. At the beginning of the brake event the generator torque is increased until it reaches its maximum (or the equivalent of the driver's brake command). Shortly before the vehicle comes to a stop, the generator torque decreases and is substituted by the friction (hydraulic) brake torque since the generator cannot sustain the brake torque at low rpm.

.02 Percentage of braking performed on road by each axle

The braking percentage performed by each axle on the road is not fixed. It is dynamically calculated and allocated according to the drivers' braking request and the power delivery mode to achieve better braking performance and vehicle performance. In the four-wheel drive configuration, both the front and rear motors are involved in regenerative braking.

.08.00 Description of charger

Polestar 3 is capable of conductive charging using an electric vehicle power supply unit (EVSE). Conductive charging is carried out using an external charger and the charging method is as follows:

- AC Level 1 charging at 120 V/16 A
- AC Level 2 charging at 240 V/48 A
- DC fast charging with a maximum power of 350 kW

For Level 1 and Level 2 charging, the vehicle is equipped with an on-board charger that converts the single-phase AC power from the EVSE into DC. The vehicle is equipped with an SAE J1772 Combo CCS inlet, located on the left rear of the vehicle. It is covered by the charging port door.

.01 Proper recharging procedures

Detailed instructions can be found in the Owner's Manual.

To initiate charging, make sure to:

- **put the vehicle in park.**
- **check the charging station for any instructions before you begin.**

1. Open the charging hatch by lightly pressing on its back edge.

2. Remove any covers from the port and cable connector.
3. Use both hands to press the cable's connector all the way into the charging port. Make a habit of pushing the charging cable upwards for a couple of seconds after inserting it to ensure connection and locking.
   > The charging cable automatically locks in place after a few seconds.
4. After confirming that the cable is locked in place, follow the charging station's instructions for charging authorization.
   > Charging starts after an insulation test has been completed by the charging station. It can take a minute to complete.

You can see the charging status in the charging port and in the instrument panel.

You can stop the charging process at any time.

IMPORTANT

Stop the charging session before attempting to unplug the cable from the vehicle charging port. If you do not, you may cause damage to the cable or to the system.

1. Stop charging by pressing the release button next to the charging socket.

> The charging is stopped and the charging cable handle unlocks. This may take a couple of seconds.
2. Unplug the charging cable from the vehicle.
3. If available, reattach the protective cover on the cable connector.
4. Reattach the charging port's protective cover and close the charging hatch.

TIP

You can also stop the charging process from the charging station or by pressing the Unlock cable button in the center display.

.02 Power requirements necessary to recharge vehicle

The Polestar 3 meets the industry standard SAE J1772 for Level 1 AC (120 VAC) and Level 2 AC (240 VAC) charging. The Polestar 3 is compatible with NACS by using an approved adapter.
AC Level 1 charging requires the use of a 110-120 volt AC grounded receptacle that matches the voltage rating of the EVSE to be used. The EVSE is rated for power. A portable EVSE cord kit for Level 1 AC charging is included with the vehicle.
AC Level 2 charging requires a 220-240 VAC outlet that is rated for the EVSE being used.

.09.00 Accessories which draw energy from the batteries

Energy from the high voltage battery is used to power the electric heater and electric air conditioner. The on-board DC-DC converter converts the high voltage to 14 volts DC to maintain the low voltage battery system and to power the 12-volt system.

.10.00 Other unique features (e.g. solar panels)

Not Applicable

.11.00 Description of warning system(s) for maintenance / malfunction

Polestar 3 is equipped with warning and indicator symbols displayed through the instrument panel that indicate a system fault (i.e. “Power system failure warning”). All warning and indicator symbols can be found in the Owner’s Manual which also provides the user with details regarding the displayed symbol and recommended actions, where applicable.

.01 Cut off terminal voltages for prevention of battery damage

The Battery Management System (BMS) monitors the battery's voltage, state of charge, temperature, and overall health. It helps balance the individual cells within the battery pack, ensures safe charging and discharging, and prevents overheating. In the event the battery

reaches unsafe limits, the battery will disconnect by opening contactors and disabling the entire high voltage system in the vehicle.

09.00.00 (Reserved)

10.00.00 (Reserved)

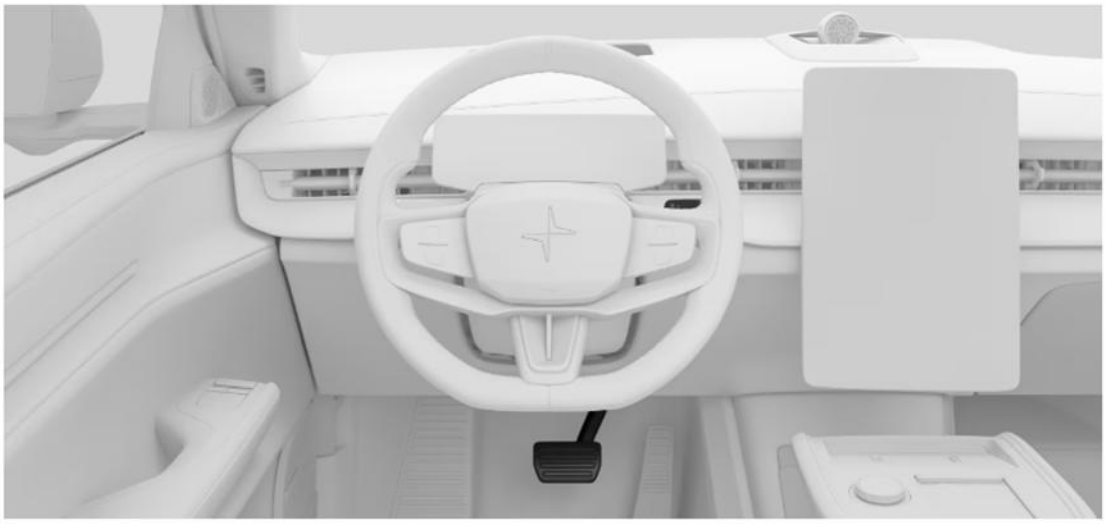
11.00.00 Starting and Shifting Schedules

.01.00 Starting the vehicle

Polestar 3

Starting the vehicle

Starting your vehicle requires a key to be present and used correctly, and you must press down on the brake pedal while starting and select a driving gear.



Your main interaction points for starting your vehicle are the brake pedal and the gear stalk.

Your vehicle unlocks differently depending on which type of key you are using. Once unlocked, your vehicle gradually powers on. Many features, such as the climate system, will be accessible once you enter your vehicle.

To start your vehicle, press down the brake pedal and select a driving gear. If you are using a key card or a discharged distance-capable key, you must first place it on the card reader.

Before you start driving, make sure that:

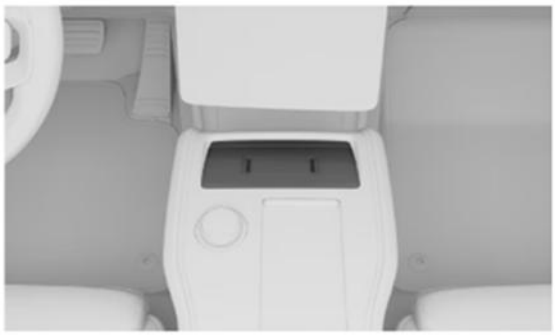
- All doors are closed.
- All occupants are properly seated and wearing their seat belts correctly.
- The driver seat, the steering wheel position and the mirrors are adjusted to your driving position.
- No charging cables are connected.
- The driver area is unobstructed and the pedals can move freely.

TIP

The vehicle can alert you to certain conditions you should address before driving. If something is preventing you from starting the vehicle, have a look in the instrument panel for guidance.

1. If you are using a distance-capable key, make sure to keep it with you.

   If you are using a key card or a discharged distance-capable key, place it on the card reader.



   The location of the key card reader that is used to start the vehicle with a key card or a discharged distance-capable key.
2. Press and the brake pedal and hold it down.
3. Select D or R using the right-hand steering wheel stalk.

   > The selected gear is indicated in the instrument panel. The ready symbol also appears, emphasizing the transition from parked to a driving gear.

NOTE

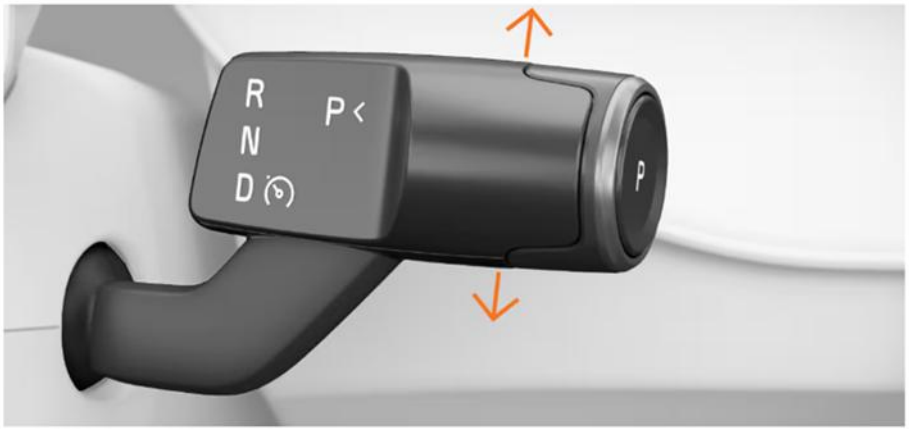
The ready symbol disappears when the vehicle's speed exceeds a walking pace.

.02.00 Gear Selection

Polestar 3

Selecting the gear

Select a gear with the right-hand steering wheel stalk. The current gear is indicated on the instrument panel.



R Reverse
N Neutral
D Drive

In addition to gear selection, the right-hand stalk also controls the parking brake and certain driver support functions.

You can only change gears when the vehicle is stationary or when you are driving at walking pace. You can't change gears while charging your vehicle.

1. Press the brake pedal [1].
2. Move the stalk up or down to select a gear.
   > Your selection is indicated on the instrument panel.

NOTE

When moving the gear selector either up or down, you can feel that it has two positions in each direction. Select R by moving the gear selector all the way up. Move the selector all the way down to select D.

You can select the neutral gear, N, by moving the gear selector to the first position in either direction, and holding it there for a couple of seconds. The stalk always returns to its middle position between gear selections.

[1] only necessary if your vehicle is stationary

12.00.00 Vehicle Description

Carline	Curb (lbs)	GVW (lbs)	ETW (lbs)	Tire Sizes	Tire Manufacturer	F0 (lbf)	F1 (lbf/mph)	F2 (lbf/mph^2)	N/V	RLHP @ 50mph
Polestar 3 Rear Motor (20in Wheels)	5174	6530	5500	FR: 255/50R20 RR: 255/50R20	Pirelli	38.99	0.165	0.02136	112.7	13.4
Polestar 3 Rear Motor (21in Wheels)	5174	6530	5500	FR: 265/45R21 RR: 295/40R21	Pirelli	36.08	0.165	0.02136	112	13

.01.00 Motor & Battery Description

Parameter	Polestar 3 Rear Motor
Drive Motor type (Front)	N/A
Drive Motor type (Rear)	Permanent Magnet Synchronous Machine
Number of Drive Motor(s)/ Drive Units	1/1
Rated Motor Power (kW) Front/Rear	245kW
Drive Configuration (AWD/2WD/4WD)	RWD
Regenerative Braking (Yes/No)	Yes
Rated Horsepower (hp)	328
Number of Battery Modules	14
Total Number of Cells	168
Nominal Battery Energy Capacity (kWh)	92
Nominal Voltage (V)	628

13.00.00 Projected Sales

Please refer to the CBI submission.

14.00.00 Request for Certificate

Mr. Byron Bunker, Director
Implementation, Analysis and Compliance Division
OTAQ
U.S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Ms. Robin U. Lang, Division Chief
Emissions Certification and Compliance Division
California Air Resources Board
1001 I Street
Sacramento, CA 95814

Subject: Request for Certificate of Conformity and Executive Order - Polestar Automotive USA 2027MY Test Group VPABT00.0ZPH.

Dear Mr. Bunker and Ms. Lang,

Polestar Automotive USA, LLC (Polestar) hereby submits an Application for Certification for 2027MY light-duty vehicles contained in Polestar's test group VPABT00.0ZPH.

Polestar believes this test group complies with all applicable regulations and provisions set forth in Title 40 Chapter I of the Code of Federal Regulations and Title 13 of the California Code of Regulations.

Please do not hesitate to contact me if you have any questions regarding this submission.

Sincerely,

Polestar Automotive USA, LLC

Certification, Regulatory & Compliance

Dan Doku

Manager, Regulatory and Compliance

15.00.00 Fee Filling Forms

Please refer to the CBI submission.

16.00.00 (Reserved)

CSI Report (Test Results)

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Certification Summary Information Report

Manufacturer	Polestar Performance AB	**Manufacturer Code**	PAB
Test Group	VPABT00.0ZPH	**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**	05/19/2026 03:03:10 PM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	**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	--	No

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	No	**California Partial Zero Emissions Vehicle Indicator**	Yes
Durability Group Name	VPABEEVNNBEV	**Durability Group Equivalency Factor**	1.0
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**	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	**OBD Demonstration Vehicle Test Group**	VPABT00.0ZPG
Test Group OBD Compliance Level	Full - no deficiencies	**Number of Test Group OBD Deficiencies**	0
OBD Deficiencies Comments	Battery Electric Vehicle - No OBD requirements		
Mfr Test Group Comments	Battery Electric Vehicle. 2027MY Polestar 3 Rear Motor (20 Inch Wheels), Polestar 3 Rear Motor (21 Inch Wheels)		
Mfr Exhaust / Evap Standards Comments	--		

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	Evaporative/Refueling Family	--

Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Polestar Performance AB	1 - Polestar Automotive USA Inc	290 - Polestar 3 Rear Motor (20in Wheels)	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	1	No
Polestar Performance AB	1 - Polestar Automotive USA Inc	290 - Polestar 3 Rear Motor (20in Wheels)	Federal	2-Wheel Drive, Rear	Automatic	1	No
Polestar Performance AB	1 - Polestar Automotive USA Inc	291 - Polestar 3 Rear Motor (21in Wheels)	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	1	No
Polestar Performance AB	1 - Polestar Automotive USA Inc	291 - Polestar 3 Rear Motor (21in Wheels)	Federal	2-Wheel Drive, Rear	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	--	--	--	--	--	--	--	--	--	--

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	--	--

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	**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	628	**Battery Energy Capacity**	147
Battery Specific Energy	158	**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**	Yes
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	PMSM	**Rated Motor/Generator Power**	245
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		

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	**Evaporative/Refueling Family**	--

Emission Data Vehicle Information

Vehicle ID / Configuration	202628 / 0	**Manufacturer Vehicle Configuration Number**	0
Original Test Group Name	VPABT00.0ZPH	**Original Evaporative/Refueling Family**	--
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	Volvo	**Represented Test Vehicle Model**	Polestar 3 Rear Motor

Leak Family Details

Leak Family Identifier	--	**Leak Family Name**	--

Drive Sources and Fuel System Details

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	0	**Odometer Correction Factor**	0.9009
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Kilometers		
Engine Code	DD_2	**Rated Horsepower**	328
Displacement (liters)	0.001		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	N/A - BEV
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	N/A	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	5174	**Equivalent Test Weight (pounds)**	5500
GVWR (lbs)	6530	**N/V Ratio**	112.7
Axle Ratio	9.79		
Transmission Type	Automatic	**# of Transmission Gears**	1
Transmission Lockup	No	**Creeper Gear**	No

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	Evaporative/Refueling Family	--

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	38.99	0.165	0.02136	15.4	0.188	0.0208	13.4
Cold CO	42.89	0.1815	0.0235	0	0	0	N/A
US06	38.99	0.165	0.02136	15.4	0.188	0.0208	N/A

Emission Control Device Comments Electric vehicle

Manufacturer Test Vehicle Comments Tested on 20 inch tire.

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	**Evaporative/Refueling Family**	--
Test #	**VPAB10094174**	**Test Procedure**	**77 - Multi-Cycle Test (MCT)**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	62 - Electricity
Test Date	08/20/2025	**Fuel**	Electricity
Fuel Batch ID	--	**Fuel Calibration Number**	--
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	4804	**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)**	100.817
Charge Depleting Range (Calculated miles)	436.028	**Charge Depleting Range (Actual miles)**	436.028
Charge Depleting Range Highway (Calculated miles)	373.884	**Derived 5-Cycle Coefficient Model Year**	--
All Electric Range Unadjusted (miles)	--	**Equivalent All Electric Range (miles)**	436.028
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)	7.456
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-2.15
Drive Trace Energy Economy Rating	-3.44
Drive Trace Inertia Work Ratio Rating	-3.44
Integrated DC KW-HRS	1.6316
Manufacturer Fuel Economy	21.883

Charge Depleting Bag/Phase #2

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	Evaporative/Refueling Family	--

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.24
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.73
Drive Trace Energy Economy Rating	-1.6
Drive Trace Inertia Work Ratio Rating	-0.59
Integrated DC KW-HRS	2.4702
Manufacturer Fuel Economy	24.123

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.453
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-1.07
Drive Trace Energy Economy Rating	-2.56
Drive Trace Inertia Work Ratio Rating	-1.32
Integrated DC KW-HRS	1.5463
Manufacturer Fuel Economy	20.747

Charge Depleting Bag/Phase #4

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	219.74
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.01
Drive Trace Energy Economy Rating	0.15
Drive Trace Inertia Work Ratio Rating	0.01
Integrated DC KW-HRS	67.9547
Manufacturer Fuel Economy	30.925

Charge Depleting Bag/Phase #5

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.463
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-1.51
Drive Trace Energy Economy Rating	-3.18
Drive Trace Inertia Work Ratio Rating	-2.11
Integrated DC KW-HRS	1.5259
Manufacturer Fuel Economy	20.446

Charge Depleting Bag/Phase #6

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	Evaporative/Refueling Family	--

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.243
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.69
Drive Trace Energy Economy Rating	-1.83
Drive Trace Inertia Work Ratio Rating	-0.68
Integrated DC KW-HRS	2.443
Manufacturer Fuel Economy	23.85

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.473
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-1.81
Drive Trace Energy Economy Rating	-3.25
Drive Trace Inertia Work Ratio Rating	-2.81
Integrated DC KW-HRS	1.5273
Manufacturer Fuel Economy	20.438

Charge Depleting Bag/Phase #8

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	34.397
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.01
Drive Trace Energy Economy Rating	-1.36
Drive Trace Inertia Work Ratio Rating	0.01
Integrated DC KW-HRS	10.5836
Manufacturer Fuel Economy	30.769

Manufacturer Test Comments Multi cycle test method used. Polestar 3 Rear Motor (20 Inch Wheels)

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	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 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 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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Certification Summary Information Report

Test Group	VPABT00.0ZPH	**Evaporative/Refueling Family**	--

Emission Data Vehicle Information

Vehicle ID / Configuration	202628 / 1	**Manufacturer Vehicle Configuration Number**	1
Original Test Group Name	VPABT00.0ZPH	**Original Evaporative/Refueling Family**	--
Original Test Vehicle Model Year	2027		

Vehicle Model

Represented Test Vehicle Make	Polestar	**Represented Test Vehicle Model**	Polestar 3 Rear Motor

Leak Family Details

Leak Family Identifier	--	**Leak Family Name**	--

Drive Sources and Fuel System Details

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	0	**Odometer Correction Factor**	0.9009
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Kilometers		
Engine Code	DD_2	**Rated Horsepower**	328
Displacement (liters)	0.001		
Air Aspiration Method	Naturally Aspirated	**Air Aspiration Method, if 'Other'**	N/A - BEV
Number of Air Aspiration Devices	--	**Air Aspiration Device Configuration**	--
Charge Air Cooler Type	N/A	**Drive Mode While Testing**	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not eqipped	**Aged Emission Components**	4,000 (mi)
Curb Weight (lbs)	5174	**Equivalent Test Weight (pounds)**	5500
GVWR (lbs)	6530	**N/V Ratio**	112
Axle Ratio	9.79		
Transmission Type	Automatic	**# of Transmission Gears**	1
Transmission Lockup	No	**Creeper Gear**	No

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	Evaporative/Refueling Family	--

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	36.08	0.165	0.02136	14.6	0.182	0.0208	13
Cold CO	39.67	0.1815	0.0235	0	0	0	N/A
US06	36.08	0.165	0.02136	14.6	0.182	0.0208	N/A

Emission Control Device Comments Electric vehicle

Manufacturer Test Vehicle Comments Tested on 21 inch tire.

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	**Evaporative/Refueling Family**	--
Test #	**VPAB10094175**	**Test Procedure**	**77 - Multi-Cycle Test (MCT)**
Exhaust Test # for this Evap Test	--	**Test Fuel Type**	62 - Electricity
Test Date	08/14/2025	**Fuel**	Electricity
Fuel Batch ID	--	**Fuel Calibration Number**	--
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	3965	**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)**	100.54
Charge Depleting Range (Calculated miles)	445.676	**Charge Depleting Range (Actual miles)**	445.676
Charge Depleting Range Highway (Calculated miles)	379.899	**Derived 5-Cycle Coefficient Model Year**	--
All Electric Range Unadjusted (miles)	--	**Equivalent All Electric Range (miles)**	445.676
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)	7.467
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-1.28
Drive Trace Energy Economy Rating	-2.62
Drive Trace Inertia Work Ratio Rating	-1.77
Integrated DC KW-HRS	1.5737
Manufacturer Fuel Economy	21.075

Charge Depleting Bag/Phase #2

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	Evaporative/Refueling Family	--

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.256
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-1.07
Drive Trace Energy Economy Rating	-1.46
Drive Trace Inertia Work Ratio Rating	-1.18
Integrated DC KW-HRS	2.4235
Manufacturer Fuel Economy	23.63

Charge Depleting Bag/Phase #3

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.465
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.02
Drive Trace Energy Economy Rating	-2.15
Drive Trace Inertia Work Ratio Rating	-0.18
Integrated DC KW-HRS	1.5037
Manufacturer Fuel Economy	20.143

Charge Depleting Bag/Phase #4

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	229.604
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.01
Drive Trace Energy Economy Rating	1.88
Drive Trace Inertia Work Ratio Rating	0.01
Integrated DC KW-HRS	71.0223
Manufacturer Fuel Economy	30.933

Charge Depleting Bag/Phase #5

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.467
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-0.39
Drive Trace Energy Economy Rating	-2.39
Drive Trace Inertia Work Ratio Rating	-0.46
Integrated DC KW-HRS	1.4946
Manufacturer Fuel Economy	20.016

Charge Depleting Bag/Phase #6

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	Evaporative/Refueling Family	--

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.256
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	2.91
Drive Trace Energy Economy Rating	-1.31
Drive Trace Inertia Work Ratio Rating	3.59
Integrated DC KW-HRS	2.4098
Manufacturer Fuel Economy	23.496

Charge Depleting Bag/Phase #7

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.448
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	-1.45
Drive Trace Energy Economy Rating	-2.79
Drive Trace Inertia Work Ratio Rating	-2.32
Integrated DC KW-HRS	1.4929
Manufacturer Fuel Economy	20.044

Charge Depleting Bag/Phase #8

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	24.67
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.01
Drive Trace Energy Economy Rating	-0.41
Drive Trace Inertia Work Ratio Rating	0.01
Integrated DC KW-HRS	7.5962
Manufacturer Fuel Economy	30.791

Manufacturer Test Comments Multi cycle test method used. Polestar 3 Rear Motor (21 Inch Wheels)

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	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 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	120,000 miles	Federal Tier 3 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

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	**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	Federal	**Cert/In-Use Code**	Both
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
120,000 miles	CREE	--	--	--	--	--	--	0	0
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**	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

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	**Evaporative/Refueling Family**	--
Cert Region	California + CAA Section 177 states	**Cert/In-Use Code**	Cert
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	**Standard Level**	California ZEV
Fuel	Electricity	**Test Procedure**	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

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	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

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Certification Summary Information Report

Test Group	VPABT00.0ZPH	**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

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Test Group	VPABT00.0ZPH	**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

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Test Group	VPABT00.0ZPH	**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