

Part 573 Safety Recall Report

23V-361

Manufacturer Name : Polestar Automotive USA, Inc.**Submission Date :** MAY 22, 2023**NHTSA Recall No. :** 23V-361**Manufacturer Recall No. :** R10216**Manufacturer Information :**

Manufacturer Name : Polestar Automotive USA, Inc.

Address : 1 Volvo Drive
ROCKLEIGH NJ 07647

Company phone : 999

Population :

Number of potentially involved : 66

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2020-2021 Polestar 1

Vehicle Type : LIGHT VEHICLES

Body Style : 2-DOOR

Power Train : HYBRID ELECTRIC

Descriptive Information : Concerned vehicles are certain 2020-2021 Polestar 1 vehicles from start of production for PHEV vehicles with Forever Energy batteries produced in China. The end breakpoint is based on Computed Tomography scans, battery tear down and physical testing. A fault in the battery cells may cause a thermal event or fire when the high-voltage battery is fully charged. This is a suppliers' responsibility due to a manufacturing defect which occurred during a specific production period at the battery supplier's production line for battery cells. 66 Vehicles in the U.S. are affected.

Production Dates : SEP 11, 2019 -MAY 12, 2021

VIN Range 1 : Begin : LYVPKBDTDLB000109 End : LPSBE0YL8MB001019 Not sequential**Description of Defect :**

Description of the Defect : Polestar investigations has shown a potential issue with the high-voltage battery in a limited number of PHEV vehicles due to a manufacturing defect, potentially leading to overheating of the battery cells when the battery is fully charged.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : There is a risk of a potential fire when the high-voltage battery is fully charged.

Description of the Cause : The root cause is a manufacturing defect which occurred during a specific production period at the battery supplier's production line for battery cells.

Identification of Any Warning that can Occur : The customer will receive no warnings prior to overheating of battery cells.

Involved Components :

Component Name 1 : Forever Energy High-voltage battery cells.

Component Description : High-Voltage Battery

Component Part Number : NR

Supplier Identification :**Component Manufacturer**

Name : Zhejiang Forever New Energy Technology C

Address : No 589 Longtan Rd. HIGH-TECH INDUSTRY PA
Jinhua Foreign States 321000

Country : China

Chronology :

Condition considered critical by Critical Management Team 12.09.2022; Field Service Action decision confirmed by Polestar 05.17.2023; Condition detected by Internal; Number of vehicle reports with the condition reported from National Sales Company 0; Total number of cars included in vehicle reports concerning this condition 0; Implementation date of Field Service Action 05.17.2023; Extended chronology of events; Volvo Cars inform Polestar regarding potentially affected batteries 09.07.2022; Start technical investigation regarding potential field service action 09.21.2022; Compare PS1 cell production date with VCC population; Investigate/compare battery usage overtime; Compare hardware differences between PS1 and SPA PHEV; Considered as a critical concern by CCMT 12.09.2022; 12.14.2022 Field Service Action Part 1 (R10202 software SoC limitation) decision confirmed by CCMT; 05.17.23 Field service Action part 2 (R10216 hardware replacement) decision confirmed by CCMT.

Description of Remedy :

Description of Remedy Program : To remedy concerned vehicles, Polestar will replace all defective hardware. If a software update (R10202) to lower the battery capacity previously has been carried out, the electric driving range will be restored after hardware replacement.

R10216 supersedes the interim solution R10202 (NHTSA ID 22V926) & (TC 2022-716).

How Remedy Component Differs from Recalled Component : Concerned vehicles were certain 2020-2021 Polestar 1 vehicles which will receive new hardware.

Identify How/When Recall Condition was Corrected in Production : Production of the Polestar 1 has ended, and the hardware replacement is the final service solution.

Recall Schedule :

Description of Recall Schedule : Remedy Notices
Planned Dealer Notification Date : MAY 22, 2023 - MAY 22, 2023
Planned Owner Notification Date : JUL 16, 2023 - JUL 16, 2023

* NR - Not Reported