

Part 573 Safety Recall Report

20V-270

Manufacturer Name : Porsche Cars North America, Inc.

Submission Date : MAY 13, 2020

NHTSA Recall No. : 20V-270

Manufacturer Recall No. : ALA4



Manufacturer Information :

Manufacturer Name : Porsche Cars North America, Inc.

Address : One Porsche Drive

Atlanta GA 30354

Company phone : 1-800-767-7243

Population :

Number of potentially involved : 2,178

Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2019-2020 Porsche Cayenne Turbo

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Affected vehicles have been identified through production records. Vehicles not included in the recall benefited from production countermeasures.

Production Dates : JUN 01, 2018 - DEC 04, 2019

VIN Range 1 : Begin : WP1AF2AY4KDA80044 **End :** WP1AF2AY2LDA39252 Not sequential

Vehicle 2 : 2020-2020 Porsche Cayenne Turbo S Hybrid Coupe

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : HYBRID ELECTRIC

Descriptive Information : Affected vehicles have been identified through production records. Vehicles not included in the recall benefited from production countermeasures.

Production Dates : JUN 28, 2019 - JUN 28, 2019

VIN Range 1 : Begin : WP1BH2AY8LDA68009 **End :** WP1BH2AY8LDA68009 Not sequential

Vehicle 3 : 2020-2020 Porsche Cayenne Turbo Coupe

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Affected vehicles have been identified through production records. Vehicles not included in the recall benefited from production countermeasures.

Production Dates : JUL 03, 2019 - NOV 28, 2019

VIN Range 1 : Begin : WP1BF2AY5LDA65025 **End :** WP1BF2AY6LDA65549 Not sequential

Description of Defect :

Description of the Defect : On some of the affected vehicles, the integrity of the quick connector of the fuel line located in the engine compartment may not have met the design specification.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If a fuel leakage at the quick connector of the fuel line occurs, this may be perceived initially by an odor of fuel. Fuel leakage in the presence of an ignition source may cause a risk of engine bay fire.

Description of the Cause : In rare instances high engine compartment temperatures subject the quick connectors to temperatures above their operating limit leading to the quick connect material softening which could potentially result in a fuel leak.

Identification of Any Warning that can Occur : Fuel odor in the area of the engine compartment.

Involved Components :

Component Name 1 : Fuel supply line

Component Description : Fuel supply line located on the fuel line between fuel tank and the high-pressure pump located in the engine compartment

Component Part Number : PAB13398600

Supplier Identification :**Component Manufacturer**

Name : Veritas Dunakiliti Kft.

Address : Veritas Str. 1
Dunakiliti FOREIGN STATES 9225

Country : Hungary

Chronology :

In Q2 2019 Porsche became aware of the issue by a single customer complaint of fuel odor, outside of the North America Region. The workshop identified a leaking quick connector. The subject component was ordered to be returned for analysis. During this analysis, a material expansion was found in the area of the components' welding line.

Subsequently, Porsche identified three further complaints outside North America. At this time, the failure

pattern was still unclear. From April 2019 to June 2019, Porsche conducted an in depth part analysis thru component testing. It was found that the temperature of the Quick Connector area may have an influence on the observed behavior. In temperature durability tests, the analyzed parts showed cracks at different temperatures and after various durations. After additional ageing tests, the component showed cracks in a temperature area, which was above the engineering specification and the maximum temperatures measured in the vehicles. This led to the conclusion, that a combination of high engine compartment temperatures and a component weakness in the area of the weld line of the Quick Connector could be the reason for the defect. From June 2019 to Sept 2019, a constant monitoring of field incidents was conducted. From June 2019 to May 2020, Design, sourcing, validation of a new material took place. Due to the test results, the new material had to be completely new developed. In Sept 2019, the very first incident in the U.S. market was identified. This led to a specific field monitoring in U.S. In the course of its investigation, Porsche identified 5 incidents (from Sept. 2019 until Jan 2020) potentially attributable to the subject issue, but did not identify a defect trend. From February 2020 to April 2020, Porsche also analyzed the vehicle population because some vehicle production periods did not appear to exhibit the issue. On May 6, 2020, out of abundance of caution, Porsche decided to conduct a voluntary safety recall

Description of Remedy :

Description of Remedy Program : The vehicles will be recalled to the workshop and the fuel line including the quick connector will be replaced with a newly designed quick connector.

How Remedy Component Differs from Recalled Component : The remedy component is newly designed. The part no. of the recalled component is PAB13398600 and is located on the fuel line between fuel tank and the high-pressure pump located in the engine compartment.

Identify How/When Recall Condition was Corrected in Production : - as of 9/27/2019 a robustness enhancement measure had been implemented in the production
- as of calendar week 26/2020 the newly developed and optimized part will be used in the production

Recall Schedule :

Description of Recall Schedule : Dealers and affected owners will be notified on or before July 10, 2020
Planned Dealer Notification Date : JUL 10, 2020 - JUL 10, 2020
Planned Owner Notification Date : JUL 10, 2020 - JUL 10, 2020

* NR - Not Reported