Part 573 Safety Recall Report 23V-241

Manufacturer Name : Porsche Cars North America, Inc.
Submission Date : JUN 16, 2023
NHTSA Recall No. : 23V-241
Manufacturer Recall No. : APA3

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 : 489
Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2004-2005 Porsche Carrera GT
Vehicle Type : LIGHT VEHICLES
Body Style : 2-DOOR
Power Train : GAS
Descriptive Information : Affected vehicles have been identified through production records.
Production Dates : DEC 19, 2003 - OCT 27, 2005
VIN Range 1 : Begin : WP0CA29894L001005 End : WP0CA29885L001577 ☐ Not sequential

Description of Defect :

Description of the Defect : It was recently determined that the spherical joints that connect the wishbone suspension components on the front and rear axles in the affected Carrera GT cars do not meet Porsche's service life durability expectations.
FMVSS 1 : NR
FMVSS 2 : NR
Description of the Safety Risk : In the event of a wishbone or spherical joint breakage, vehicle controllability could be affected which could increase a risk of a crash.
Description of the Cause : The material used (X46Cr13) does not provide sufficient resistance to intergranular stress corrosion when exposed to salt and mechanical stress over service life. This could result in cracks or fractures in the spherical joints, and possible the wishbone.
Identification of Any Warning that can Occur : There is a possibility for perceptible noise and vibration due to loosening or failure of the connection, but component fracture could occur without sufficient warning.

Involved Components :

Component Name 1 :	Spherical joints
Component Description :	Control arms that locate the wheel uprights and hubs to the body.
Component Part Number :	98034105300

Component Name 2 :	Spherical joints
Component Description :	Control arms that locate the wheel uprights and hubs to the body.
Component Part Number :	98034105100

Component Name 3 :	Spherical joints
Component Description :	Control arms that locate the wheel uprights and hubs to the body.
Component Part Number :	98033104300

Component Name 4 :	Spherical joints
Component Description :	Control arms that locate the wheel uprights and hubs to the body.
Component Part Number :	98033104101

Supplier Identification :

Component Manufacturer

Name :	Carl Hirschmann GmbH
Address :	Kirchentannenstraße 9 Fluorn-Winzeln Foreign States D-78737
Country :	Germany

Chronology :

In August 2019 the issue was presented for the first time due to an isolated case with one-sided broken spherical joints. The customer did not experience any abnormalities while driving the car. The damage was identified while the vehicles was in for unrelated service.
Further analyses were initiated to determine if this was a systemic issue or an isolated case. In October 2019 the remaining wishbones and spherical joints from the subject vehicle were analyzed. There were no further damages found in the car. During the following year, comparison vehicles were also obtained to analyze components on a vehicle without broken parts. These parts were difficult to procure due to the age and extremely limited production of the subject vehicle.

In October 22, 2020, a parts collection activity was undertaken to obtain exemplar parts from 20 in-service vehicles, to better understand the potential causes and the overall condition regarding potential (intergranular) corrosion.
The result was that no critical damage caused by corrosion to the examined components could be detected. No cracks or ruptures were detected. Markets with high use of road salt showed signs of increased normal surface corrosion, but all other analyses show unremarkable results.
Because the initial analysis was inconclusive, through all 2021 and the beginning of 2022 more parts were obtained and tested from other markets around the world.
Between November of 2022 and January 2023, material analyses results gave indications that the used material does not have enough corrosion resistance over the service life.
In February 2023 to March 2023, Porsche conducted additional driving tests / simulations in order to evaluate the potential driving behavior in case of a failure while driving. For this reason, a suitable simulation method and model had to be defined and validated.
On March 29, 2023, out of abundance of caution, Porsche decided to voluntarily recall the subject vehicles as described below.

Description of Remedy :

Description of Remedy Program :	Porsche will replace front and rear suspension components with new parts. Specifically, front and rear control arms, as well as rear suspension push rods and tie rods will be replaced. The owner's letter will advise that Porsche offers a reimbursement for pre-notification remedies in accordance with 49 CFR §573.13.
How Remedy Component Differs from Recalled Component :	The material of the recalled component is made of 'X46Cr13". The remedy component will be made of a more robust material (42CrMoS4).
Identify How/When Recall Condition was Corrected in Production :	Not applicable.

Recall Schedule :

Description of Recall Schedule :	Interim recall notification was made on April 27th, 2023. The final remedy notification date is pending as remedy parts development is currently ongoing.
Planned Dealer Notification Date :	APR 19, 2023 - APR 19, 2023
Planned Owner Notification Date :	JUN 02, 2023 - JUN 02, 2023

* NR - Not Reported