

Part 573 Safety Recall Report

24V-249

Manufacturer Name : Aston Martin The Americas**Submission Date :** JUN 20, 2024**NHTSA Recall No. :** 24V-249**Manufacturer Recall No. :** RA-03-1926**Manufacturer Information :****Population :**

Manufacturer Name : Aston Martin The Americas

Number of potentially involved : 720

Address : Banbury Road
Gaydon Warwick, United Kingdom 00
CV35 0DB

Estimated percentage with defect : 1 %

Company phone : 999

Vehicle Information :

Vehicle 1 : 2023-2024 Aston Martin DBX707

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : All DBX707 produced from the date the supplier changed their process to the new design of hose was implemented on the production line. No other model uses this hose.

Production Dates : OCT 11, 2022 - JUN 30, 2023

VIN Range 1 : Begin : SD7VUJBW2PTV06973 End : SD7VUJBW3RTV09772 Not sequential**Description of Defect :**

Description of the Defect : An oil hose for the oil cooler potentially has a thin wall and can burst. The oil hoses part supplier changed the process for wrapping oil cooler hoses. Failure to use the prescribed wrapping process can result in pit and pin marks forming on the inner wall of the hoses. Oil cooler hoses with pit and pin marks may be prone to burst with a resulting loss of oil and oil pressure. The system runs at 7.85 bar pressure during vehicle operation. Supplier testing has shown that properly wrapped oil cooler hoses subjected to a 25 bar pressure test do not burst.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : On affected vehicles, certain oil hoses for the oil cooler exhibit pit and pin marks that identify parts that may be prone to burst with a resulting loss of oil and oil pressure. Sudden and rapid loss of oil and oil pressure could lead to the engine stalling or seizing which could increase the risk of crash or fire (in the presence of an ignition source).

Aston Martin has not received any report of an accident or injury caused by

this defect.

Description of the Cause : As part of the pressure test increase, it was found that there was a 'thin wall' scenario in the hoses during to an incorrect winding process during manufacture.

Identification of Any Warning that can Occur : Before failing, a warning message may show on the instrument panel to warn of low oil level and pressure.
After failing, the driver may also see smoke from the engine area.

Involved Components :

Component Name 1 : ENG OIL COOL HS ASSY

Component Description : HOSE ASSEMBLY, OIL COOLER INLET

Component Part Number : PY83-6B747-CB

Component Name 2 : ENG OIL COOL HS ASY

Component Description : HOSE ASSEMBLY, OIL COOLER OUTLET

Component Part Number : PY83-6B748-CB

Supplier Identification :

Component Manufacturer

Name : Imperial Auto Industries

Address : Plot 8A-B, Krishna Nagar,
Sector 20, Faridabad, Haryana Foreign States 121006

Country : India

Chronology :

573.6 (c) (6) - Chronology of Events Determining the Defect

1. 4th July 2023 – Initial concern raised. Report of failure of oil cooler hose that had split in the field.

Symptoms were smoke from engine and oil level and pressure warnings.

2. This prompted an investigation.

3. Aston Martin was already liaising with supplier during June 2023 to investigate cause of failure from a vehicle during a rolling road test to increase the pressure test from 7 bar to 15 bar. Vehicle system would have a nominal operating pressure of 7.5 bar. A 25 bar hose was later introduced that superseded the 15 bar hose.

4. The Company's Technical Review Group (TRG) met regularly throughout the investigation.
5. The Company's Critical Concerns Review Group (CCRG) met on 12th March to assess the nature and scope of potential concerns related to the oiler cooler hose, and the effectiveness of the 15 bar and 25 bar pressure tests to address all concerns.
6. The CCRG reviewed the technical data and recommended the matter should be reviewed by the Recall Committee.
7. The Recall Committee convened on 03/04/2024 and determined that:
 - a) a potential defect could occur in the relevant vehicle population;
 - b) this defect could lead to a potential safety risk; and
 - c) a voluntary safety recall of all affected vehicles be implemented

Description of Remedy :

Description of Remedy Program : Aston Martin will replace the hoses for the oil cooler on all affected vehicles at no cost to the customer. It is unlikely that an owner has paid for the remedy ahead of the notification being published as the majority of cars were still within the manufacturers warranty during this time. If a customer has incurred a cost for the remedy they can submit a claim for reimbursement through an Aston Martin dealer or direct to Aston Martin customer services.

How Remedy Component Differs from Recalled Component : The new hoses are of the same design but will have passed a 25 bar pressure test, instead of the earlier mandated 7 or 15 bar pressure test.

Identify How/When Recall Condition was Corrected in Production : The uprated pressure tested hoses were introduced in production during June 2023.

Recall Schedule :

Description of Recall Schedule : It is Aston Martin's intention to notify all customers listed in table in 573.6(c) (2) above. Aston Martin will provide copies of the notification schedule, including mail dates for the owner letter, when available.

Planned Dealer Notification Date : APR 05, 2024 - OCT 07, 2024

Planned Owner Notification Date : APR 22, 2024 - APR 21, 2025

* NR - Not Reported