



U.S. Department
of Transportation

National Highway
Traffic Safety
Administration

Part 573 Safety Recall Report

24V712

Manufacturer Name: Aston Martin The Americas

Submission Date: Sep 30, 2024

NHTSA Recall No.: 24V712

Manufacturer Recall No.: RA-03-1973

Manufacturer Information

Population

Manufacturer Name: Aston Martin The Americas

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

Total number of potentially involved: 1,095

Estimated percentage with defect: 1%

Vehicle Information

Vehicle 1: 2025-2025 Aston Martin Vantage

Product Category:

Product Type:

Fuel / Propulsion:

Production Dates: Jan 04, 2024 - May 23, 2024

Number of potentially involved:

Descriptive Information:

Aston Martin manufactured 336 DBX 707, 719 DB12 and 40 Vantage vehicles intended for sale in the USA with a potentially defective oil cooler hose between October 2022 and July 2024. Aston Martin manufactured a further 1348 DBX 707, 1838 DB12 and 163 Vantage vehicles for sale in other countries between September 2022 and July 2024 with the same oil cooler hose.

Of those vehicles, 2 US vehicles and 7 in other countries have had failures and had replacement parts installed.

Previously, 2 US vehicles and 6 in other countries have had failures of the oil cooler hose due to a different failure mode and had replacement parts installed. A campaign was launched (RA-03-1926 / NHTSA 24V249000) that affected 720 US vehicles (2054 worldwide).

Vehicle 2: 2024-2025 Aston Martin DB12

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion: Spark Ignition Fuel

Production Dates: Jan 09, 2023 - Jun 13, 2024

Number of potentially involved:

Descriptive Information:

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Aston Martin manufactured 336 DBX 707, 719 DB12 and 40 Vantage vehicles intended for sale in the USA with a potentially defective oil cooler hose between October 2022 and July 2024. Aston Martin manufactured a further 1348 DBX 707, 1838 DB12 and 163 Vantage vehicles for sale in other countries between September 2022 and July 2024 with the same oil cooler hose.

Of those vehicles, 2 US vehicles and 7 in other countries have had failures and had replacement parts installed.

Previously, 2 US vehicles and 6 in other countries have had failures of the oil cooler hose due to a different failure mode and had replacement parts installed. A campaign was launched (RA-03-1926 / NHTSA 24V249000) that affected 720 US vehicles (2054 worldwide).

Vehicle 3: 2024-2025 Aston Martin DBX707

Product Category: Light Vehicles

Product Type:

Fuel / Propulsion: Spark Ignition Fuel

Production Dates: Oct 11, 2023 - Jul 03, 2024

Number of potentially involved:

Descriptive Information:

Aston Martin manufactured 336 DBX 707 vehicles intended for sale in the USA with a potentially defective oil cooler hose between October 2022 and July 2024. Aston Martin manufactured a further 1348 DBX 707 vehicles for sale in other countries between September 2022 and July 2024 with the same oil cooler hose.

Of those vehicles, 2 US vehicles and 7 in other countries have had failures and had replacement parts installed.

Previously, 2 US vehicles and 6 in other countries have had failures of the same oil cooler hose due to a different failure mode and had replacement parts installed. A campaign was launched NHTSA 24V249000 that affected 720 US vehicles.

Defect / Noncompliance Description

Description of the defect or noncompliance:

A variable control of pressure during the extrusion process can cause inconsistencies in the inner wall thickness of the oil cooler hose. When the hose is fitted to the mandrel to be shaped, these inconsistencies can be torn or folded causing scoring to the inner wall of the hose. These scores can become weak spots during the temperature and pressure pulsation of the oil hoses that occurs during vehicle operation.

Oil cooler hoses manufactured with this defect may be prone to split with a resulting loss of oil and oil pressure. This potential defect is not detected by the supplier's 25 bar end of line pressure test.

FMVSS1:

FMVSS2:

Description of the safety risk, including crash, fire, death, injury:

On affected vehicles, certain oil hoses for the engine oil cooler may be prone to split 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 accident or fire (in the presence of an ignition

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source).

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

Description of the cause:

The root cause results from an inconsistent inner diameter of the hose. A variation in pressure control during the manufacturer's extrusion process can cause "ribbing". When the hoses are fitted to the mandrel to be shaped, these "ribs" can become folded or torn. This can lead to score marks on the inner wall of the hose.

The oil system of the vehicle pressurises and depressurises each time the engine is started, and the pressure also varies during normal usage. Over time, these scored areas can become weak points in the inner wall of the hose and then split due to the repeated temperature and pressure pulsation.

Identification of any warning that can occur:

After 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 bay area.

Component Manufacturer

Tier of Supplier:

Supplier Type:

Name: Imperial Auto Industries

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

Country: India

Involved Components

Component Name 1: ENG OIL COOL HS ASY

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

Chronology

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1. 22nd April 2024, a split hose was reported on a DBX707. This opened an investigation. 2. On the 3rd of June 2024 and 17th of June 2024, 3 DB12s were reported to have suffered the same split hose. 3. It was identified that the failures were due to a manufacturing defect during the extrusion process. Temperature and pressure pulsation can cause the hose to split during vehicle operation. 4. 16th June 2024 borescope inspection process of the hoses introduced. 5. 22nd June 2024 a robust mechanical lock system was introduced on the pressure regulator in the supplier's manufacturing process to ensure consistent inner diameter of hose. 6. The Company's Technical Review Group (TRG) met regularly throughout the investigation. 7. The Company's Critical Concerns Review Group (CCRG) met on 04/09/2024 to assess the nature and scope of potential concerns related to the oil cooler hose. 8. The CCRG reviewed the technical data and recommended the matter should be reviewed by the Recall Committee. 9. The Recall Committee convened on 11/09/2024 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 second voluntary safety recall of all affected vehicles be implemented. 10. Aston Martin recall campaign RA-03-1926 is not related to RA-03-1973. However any vehicle repaired in RA-03-1926 prior to 15th of August 2024 will not have used the latest level of parts and therefore those vehicles are included in RA-03-1973.

Related NHTSA Recall Number:

Description of Remedy

Remedy Type: Replace

Consumer Advisories: Do Not Drive Park Outside

Description of remedy program:

Aston Martin will replace the hoses with new parts for the oil cooler on all affected vehicles.

How remedy component differs from recalled component:

A robust and repeatable manufacturing process was introduced in June 2024 to make sure consistent hose wall thickness/inner diameters were produced which corrects the rib condition. A borescope inspection processes for each hose manufactured was also introduced at this time. A sample of each batch produced is tested using temperature and pressure pulsation.

Identify how/when recall condition was corrected in production:

16th June 2024 a borescope inspection process of the hoses was introduced. 22nd June 2024 a more robust mechanical lock system was introduced on the pressure regulator in the supplier's manufacturing process to ensure consistent inner diameter of hose.

Reimbursement Plan

Description of reimbursement program:

Period of reimbursement:

Part 573 Safety Recall Report**24V712****Costs to be reimbursed:****Address for reimbursement claims:****Recall Schedule****Description of recall schedule:**

It is Aston Martin's intention to notify all customers. Aston Martin will provide copies of the notification schedule, including mail dates for the owner letter, when available.

- Planned Dealer Notification Date:** Sep 24, 2024 - Mar 31, 2025 No Dealers
- Planned Interim Owner Notification Date:** No Owners
- Planned Remedy Owner Notification Date:** Oct 07, 2024 - Mar 31, 2025 Phased Recall
- Date when VIN will be searchable:**