

Part 573 Safety Recall Report

20V-681

Manufacturer Name : Volvo Car USA LLC

Submission Date : NOV 06, 2020

NHTSA Recall No. : 20V-681

Manufacturer Recall No. : R10058



Manufacturer Information :

Manufacturer Name : Volvo Car USA LLC

Address : 270 Three Point Drive
Ridgeville SC 29472

Company phone : 201-768-7300

Population :

Number of potentially involved : 54,124

Estimated percentage with defect : 2 %

Vehicle Information :

Vehicle 1 : 2001-2003 VOLVO S80

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Concerned vehicles are from the introduction of propellant 5 AT 148 N. S60/S80 MY2001-MY2003 in hot and humid areas are identified based on knowledge from field recovery studies, weather data from respective area and vehicle specific temperature data.

The affected vehicles are Models S60 and S80 M/Y 2001-2003.

Production Dates : MAY 20, 2000 - MAR 13, 2003

VIN Range 1 : Begin : YV1TS94K511147860 End : YV1TS92D331317579 ☐ Not sequential

Vehicle 2 : 2001-2003 VOLVO S60

Vehicle Type : LIGHT VEHICLES

Body Style : 4-DOOR

Power Train : GAS

Descriptive Information : Concerned vehicles are from the introduction of propellant 5 AT 148 N. S60/S80 MY2001-MY2003 in hot and humid areas are identified based on knowledge from field recovery studies, weather data from respective area and vehicle specific temperature data. The affected vehicles are Models S60 and S80 M/Y 2001-2003.

Production Dates : JUL 13, 2000 - MAR 07, 2003

VIN Range 1 : Begin : YV1RS49K912000167 End : YV1RS793232287593 ☐ Not sequential

Description of Defect :

Description of the Defect : Volvo Cars investigations have identified an issue regarding the driver airbag. In the event of a crash where the driver airbag is activated, fragments of the inflator inside the airbag may, in certain cases, project out and in worst case strike you, potentially resulting in serious injury or death. Volvo Cars centrally has received and is aware of one rupture incident. That one rupture incident resulted in a fatality report related to this condition.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : In the event of a crash with a driver airbag activation where a rupture occurs the driver might be struck by fragments from the inflator potentially resulting in serious injury or death.

Description of the Cause : If the propellant tablets are subjected to elevated moisture levels and frequent high inflator temperatures, the tablets can start to decay and form dust particles. When exposed to high temperatures, moisture leaves the tablet and when cooled down is absorbed and accumulated on the tablets surface. This localization of moisture leads to volumetric changes of the tablets surface creating dust over time. Dust increases burn surface area and thereby burn rate. Higher burn rate can result in higher combustion chamber pressure and risk of inflator rupture.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : FG2 Twin Driver Airbag inflator containing 5AT 148

Component Description : Airbag Inflator

Component Part Number : NR

Supplier Identification :**Component Manufacturer**

Name : ZF Group

Address : 12001 Tech Center Drive
Livonia MICHIGAN 48150

Country : United States

Chronology :

- A. Condition considered as Critical by CCMT* 2020-10-28
- B. Field Action decision by Volvo Car Corporation 2020-11-04
- C. Condition detected by? (market VR**, internal, inspection, testing) Market
- D. Number of VR with the condition, reported to Volvo Cars from NSC? 1
- E. Total number of cars included in VRs concerning the condition? 1
- F. Implementation date 2020-11-04
- 6.18.2019 VCUSA legal received Attorney letter for alleged rupture (Hudson)
- 8.28.2019 Volvo/ZF/NHTSA joint Hudson Vehicle Inspection
- 9.10.2019 Volvo/ZF/NHTSA joint technical meeting
- 9.20.2019 Volvo/ZF/NHTSA joint technical meeting
- 9.26.2019 Volvo/ZF/NHTSA joint technical meeting
- 10.25.2019 Volvo/ZF/NHTSA joint technical meeting
- 01.23.2020 Volvo/ZF/NHTSA joint technical meeting
- 03.26.2020 Volvo/ZF/NHTSA joint technical meeting
- 6.4.2020 Volvo/ZF/NHTSA joint technical meeting
- 8.27.2020 Volvo/ZF/NHTSA joint technical meeting
- 10.20.2020 NHTSA requested meeting - FG2-Twin Discussion
- 10.28.2020 NHTSA requested meeting - FG2-Twin Decision

Description of Remedy :

- Description of Remedy Program : To remedy the concerned vehicles Volvo Cars needs to replace the Driver Airbag at no cost to the customer.
- How Remedy Component Differs from Recalled Component : Driver airbag with a modern state-of-the-art propellant/inflator.

Identify How/When Recall Condition was Corrected in Production :	Deviation has been identified through component testing at the inflator manufacturer (ZF) and analysis of field return parts investigated together with the inflator manufacturer (ZF) and NHTSA.
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Recall Schedule :

Description of Recall Schedule :	NR
Planned Dealer Notification Date :	NOV 04, 2020 - NOV 04, 2020
Planned Owner Notification Date :	JAN 04, 2021 - JAN 04, 2021

* NR - Not Reported