

Part 573 Safety Recall Report

18V-087

Manufacturer Name : Jaguar Land Rover North America, LLC**Submission Date :** FEB 05, 2018**NHTSA Recall No. :** 18V-087**Manufacturer Recall No. :** N138**Manufacturer Information :****Population :**

Manufacturer Name : Jaguar Land Rover North America, LLC

Number of potentially involved : 8,211

Address : 555 MACARTHUR BOULEVARD

Estimated percentage with defect : 100 %

MAHWAH NJ 07430

Company phone : 8188500

Vehicle Information :

Vehicle 1 : 2018-2018 Land Rover Range Rover Evoque

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Jaguar Land Rover North America, LLC (Land Rover) is recalling certain 2018 Model Year Range Rover Evoque, Range Rover Velar and Discovery Sport vehicles fitted with 2.0L Gasoline engines, for an under hood gasoline fuel leak. The brazing of the fuel rail end caps is inconsistent and may not provide the design condition so not sealing the fuel rail ends. Fuel vapor and liquid fuel leaks can occur over time. This can lead to a liquid fuel leak into the engine bay.

Production Dates : JUL 21, 2017 - DEC 19, 2017

VIN Range 1 : Begin : SALVC2RX1JH255258 End : SALVP2RX3JH296852 Not sequential

Vehicle 2 : 2018-2018 Land Rover Range Rover Velar

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Jaguar Land Rover North America, LLC (Land Rover) is recalling certain 2018 Model Year Range Rover Evoque, Range Rover Velar and Discovery Sport vehicles fitted with 2.0L Gasoline engines, for an under hood gasoline fuel leak. The brazing of the fuel rail end caps is inconsistent and may not provide the design condition so not sealing the fuel rail ends. Fuel vapor and liquid fuel leaks can occur over time. This can lead to a liquid fuel leak into the engine bay.

Production Dates : APR 26, 2017 - DEC 19, 2017

VIN Range 1 : Begin : SALYB2RX9JA700192 End : SALYM2RX8JA745540 Not sequential

Vehicle 3 : 2018-2018 Land Rover Discovery Sport

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : GAS

Descriptive Information : Jaguar Land Rover North America, LLC (Land Rover) is recalling certain 2018 Model Year Range Rover Evoque, Range Rover Velar and Discovery Sport vehicles fitted with 2.0L Gasoline engines, for an under hood gasoline fuel leak. The brazing of the fuel rail end caps is inconsistent and may not provide the design condition so not sealing the fuel rail ends. Fuel vapor and liquid fuel leaks can occur over time. This can lead to a liquid fuel leak into the engine bay.

Production Dates : JUN 19, 2017 - DEC 28, 2017

VIN Range 1 : Begin : SALCR2RX4JH708388 **End :** SALCR2SX4JH748920 Not sequential

Description of Defect :

Description of the Defect : Jaguar Land Rover North America, LLC (Land Rover) is recalling certain 2018 Model Year Range Rover Evoque, Range Rover Velar and Discovery Sport vehicles fitted with 2.0L Gasoline engines, for an under hood gasoline fuel leak. The brazing of the fuel rail end caps is inconsistent and may not provide the design condition so not sealing the fuel rail ends. Fuel vapor and liquid fuel leaks can occur over time. This can lead to a liquid fuel leak into the engine bay.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Should leaking fuel come into contact with a sufficiently hot surface there is an increased risk of fire.

Description of the Cause : NR

Identification of Any Warning that can Occur : Fuel odor may be noticed by the driver and they may also observe liquid fuel if the hood is lifted.

Supplier Identification :

Component Manufacturer

Name : Winkelmann SP. Z O.O

Address : NR

Legnica FOREIGN STATES 59-220

Country : Poland

Chronology :

On November 21, 2017 Jaguar Land Rover opened a Product Safety and Compliance Committee (PSCC) investigation to review 3 Electronic Quality Product Reports (EPQR) from retailers where customers had reported excessive fuel odor in the passenger compartment. On inspection, it was identified that fuel was leaking from the end of the engine mounted fuel rail.

Jaguar Land Rover engineering and Supplier Technical Assistance (STA) reviewed the concern and ordered a supplier review of the fuel rail manufacturing processes. During these reviews in November and December 2017 it was identified that the brazing on the end caps of engine mounted fuel rail did not have a continuous braze on the internal circumference of the end cap although the external face showed no braze imperfection.

Sample inspection of parts identified that the brazing of the fuel rail end cap was inconsistent.

Testing and root cause investigation continued through December 2017 and into January 2018. The engineering investigation also reviewed the brazing process, fuel rail material properties and surface treatments, it identified differences in internal the surface finish of pipe stock. A supplier review of failed assemblies returned from the market confirmed that the fuel rail to end cap joints were inconsistently brazed and not to specification.

At the PSCC on January 09, 2018, engineering confirmed that the lack of braze on the fuel rail to end cap joint was the fuel leak path and the joint would fail at some time in the future but the failure could not be correlated to mileage or time. Further testing identified that due to the high pressure in the fuel rail and the pressure pulsation force within the system, joints not fully brazed will fatigue over varying amount of time or distance.

Engineering also confirmed that during the sub-supplier manufacture of the fuel rail the annealing process was an uncontrolled process which led to part of the raw material not receiving the correct treatment. T

Description of Remedy :

Description of Remedy Program : Land Rover will notify owners, and authorized repairers will replace the fuel rail. There will be no charge to owners for this repair.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : Distribution of owner notification letters will occur on or before March 23, 2018. Notification dates to dealers to be provided.

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : MAR 23, 2018 - MAR 23, 2018

* NR - Not Reported