

Recall N074

573.6 (c) (6) - Chronology of Events

On June 6, 2017 Jaguar Land Rover were informed of a concern found at Ford's Bridgend engine assembly plant where a high pressure fuel pump was identified as not being correctly assembled to the engine.

The Jaguar Land Rover Product Safety and Compliance Committee (PSCC) reviewed the concern on June 11, 2017 and opened an investigation.

Following notification of this concern, during June and July 2017 Jaguar Land Rover Supplier Technical Assistance (STA) and engineering, commenced an investigation at the suppliers and identified from tooling data further incidents where this issue may have occurred.

It was identified that during the assembly of the high pressure fuel pump a mixed condition of the fixings had been used for the high pressure fuel pump installation process. The correct length bolts for this application should be 25mm, but some 30mm length bolts were used. The 30mm bolts 'bottomed out' in the blind tapped hole and this led to the high pressure fuel pump not being secured properly.

Testing of engines with the incorrect length bolts was commissioned in June 2017 by Jaguar Land Rover and it was identified that, over time, due the vibration caused by the fuel pump being incorrectly attached, a brazed joint on the fuel pump low pressure inlet pipe could fracture and a liquid fuel leak could occur. Further testing was commissioned with incorrect bolts installed and the same failure occurred. When the correct bolts were installed and the high pressure fuel pump attached correctly the engine passed the full test cycle.

During July 2017, analysis of data from the tool used in the station where these fixings are installed was reviewed to determine what other engines, beyond those detected at the assemble plant could also have the 30mm, incorrect length bolt used. No other failures were identified.

On July 25, 2017, the PSCC reviewed all the data and concluded that this issue be progressed to the Jaguar Land Rover Recall Determination Committee (RDC).

The RDC reviewed all information on July 28, 2017 and determined that fuel leaking in the engine bay and onto the road surface represented an unreasonable risk to safety and that a voluntarily safety recall be conducted.

There have been no reported accidents, injuries or fires as a result of this concern.