



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

# ODI RESUME

**Investigation:** PE 18-014  
**Date Opened:** 12/01/2018  
**Investigator:** Frederick Lamance      **Reviewer:** Jeff Quandt  
**Approver:** Stephen Ridella  
**Subject:** Loss of Brake Power Assist

## MANUFACTURER & PRODUCT INFORMATION

**Manufacturer:** LAND ROVER  
**Products:** 2012 - 2014 MY Range Rover Evoque  
**Population:** 30,000 (Estimated)  
**Problem Description:** Vacuum pump failure results in sudden loss of power assisted braking and extended stopping distance.

## FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
<b>Complaints:</b>	7	TBD	TBD
<b>Crashes/Fires:</b>	0	TBD	TBD
<b>Injury Incidents:</b>	0	TBD	TBD
<b>Number of Injuries:</b>	0	TBD	TBD
<b>Fatality Incidents:</b>	0	TBD	TBD
<b>Number of Fatalities:</b>	0	TBD	TBD

## ACTION / SUMMARY INFORMATION

**Action:** A Preliminary Evaluation has been opened.

### Summary:

The Office of Defects Investigation (ODI) has received seven complaints alleging loss of brake power assist due to vacuum pump failure in model year (MY) 2012 through 2014 Range Rover Evoque vehicles. The subject vehicles are equipped with 2.0 liter Gasoline Turbocharged Direct Injection (GTDI) engines, which use an engine-powered single-vane rotary vacuum pump as the sole source of vacuum to the brake booster. The vacuum pump is attached to the rear of the engine and driven by the intake camshaft. The pump requires a constant supply of engine oil for lubrication, sealing and cooling. Disruption of engine oil supply to the pump may result in pump failure and loss of brake booster vacuum, which results in increased brake pedal efforts by the driver and extended stopping distances. The pump is supplied by Magna Powertrain. At this time, ODI is not aware of any accidents or injuries associated with the alleged defect.

A Preliminary Evaluation has been opened to assess the scope, frequency and safety consequences of the alleged defect.

The following VOQ numbers are associated with this opening resume: 10916819, 11149724, 11098826, 11083348, 11025409, 10986358, 10936658