



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 13-030
Date Opened: 09/06/2013
Investigator: Paul Simmons
Approver: Frank Borris
Subject: Loss of power assist braking

Date Closed: 10/25/2013
Reviewer: Jeff Quandt

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: BMW of North America, LLC
Products: 2012-14 BMW 320i, 328i, 528i, X1, X3, and Z4 with 4-cyl eng
Population: 76,191

Problem Description: Complaints allege incidents of hard brake pedal, increased braking effort and extended stopping distances.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	4	84	84**
Crashes/Fires:	0	0	0
Injury Incidents:	0	0	0
Fatality Incidents:	0	0	0
Other*:	0	105	105

*Description of Other: Warranty claims

** Total eliminates duplicates received by ODI and manufacturer.

ACTION / SUMMARY INFORMATION

Action: This Preliminary Evaluation is closed. See Safety Recall 13V-454.

Summary:

In a letter dated September 26, 2013, BMW Group submitted a safety recall notice to NHTSA identifying a defect condition in the vacuum pump oil supply that may result in loss of power assist braking in 76,191 model year (MY) 2012 through 2014 BMW 3-Series, 5-Series, X1 SAV, X3 SAV, and Z4 vehicles equipped with 4-cylinder engines (NHTSA Recall 13V-454).

According to BMW, movement of the seal disk within the camshaft may result in blocking of the oil supply to the vacuum pump, resulting in improper pump operation and loss of power assist braking. On July 11, 2013, BMW initiated a change to the camshaft geometry that prevented the seal disk from blocking the oil port. BMW has not received any braking complaints related to loss of power assist after the design change was implemented in production.

The owners of all affected vehicles will be contacted by mail and asked to take their vehicle to a BMW dealer who will install a locking ring into the camshaft to keep the seal disk in its proper location. BMW expects to begin dealer and owner notification in November 2013 and complete dealer and owner notification in December when the remedy is expected to be available. Based on the actions taken by BMW, this investigation is closed.