Part 573 Safety Recall Report 23V-707

Manufacturer Name : BMW of North America, LLC
Submission Date : OCT 20, 2023
NHTSA Recall No. : 23V-707
Manufacturer Recall No. : NR

Manufacturer Information :

Manufacturer Name : BMW of North America, LLC
Address : P.O. Box 1227
Westwood NJ 07675-1227
Company phone : 18005257417

Population :

Number of potentially involved : NR
Estimated percentage with defect : 1 %

Vehicle Information :

Vehicle 1 : 2010-2012 BMW 5 Series
Vehicle Type : LIGHT VEHICLES
Body Style : 4-DOOR
Power Train : GAS
Descriptive Information : Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break.

Basis for recall population determination:
Vehicles which were included in the 2014 extended warranty program.

Recall component difference to non-recall component:
VANOS housing bolt material and treatment.

Production Dates : JAN 01, 2010 - DEC 31, 2022
VIN Range 1 : Begin : NR End : NR ☐ Not sequential

Vehicle 2 :	2010-2012 BMW 3 Series
Vehicle Type :	LIGHT VEHICLES
Body Style :	4-DOOR
Power Train :	GAS
Descriptive Information :	Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break. Basis for recall population determination: Vehicles which were included in the 2014 extended warranty program. Recall component difference to non-recall component: VANOS housing bolt material and treatment.
Production Dates :	JAN 01, 2010 - DEC 31, 2012
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 3 :	2010-2012 BMW 1 Series
Vehicle Type :	LIGHT VEHICLES
Body Style :	2-DOOR
Power Train :	GAS
Descriptive Information :	Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break. Basis for recall population determination: Vehicles which were included in the 2014 extended warranty program. Recall component difference to non-recall component: VANOS housing bolt material and treatment.
Production Dates :	JAN 01, 2010 - DEC 31, 2012
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 4 :	2010-2012 BMW 6 Series
Vehicle Type :	LIGHT VEHICLES
Body Style :	2-DOOR
Power Train :	GAS
Descriptive Information :	Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break. Basis for recall population determination: Vehicles which were included in the 2014 extended warranty program. Recall component difference to non-recall component: VANOS housing bolt material and treatment.
Production Dates :	JAN 01, 2010 - DEC 31, 2012
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 5 :	2010-2012 BMW 5 Series Gran Turismo
Vehicle Type :	LIGHT VEHICLES
Body Style :	STATIONWAGON
Power Train :	GAS
Descriptive Information :	Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break. Basis for recall population determination: Vehicles which were included in the 2014 extended warranty program. Recall component difference to non-recall component: VANOS housing bolt material and treatment.
Production Dates :	JAN 01, 2010 - DEC 31, 2012
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 6 :	2010-2012 BMW X3
Vehicle Type :	LIGHT VEHICLES
Body Style :	SUV
Power Train :	GAS
Descriptive Information :	Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break. Basis for recall population determination: Vehicles which were included in the 2014 extended warranty program. Recall component difference to non-recall component: VANOS housing bolt material and treatment.
Production Dates :	JAN 01, 2010 - DEC 31, 2012
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 7 :	2010-2012 BMW X5
Vehicle Type :	LIGHT VEHICLES
Body Style :	SUV
Power Train :	GAS
Descriptive Information :	Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break. Basis for recall population determination: Vehicles which were included in the 2014 extended warranty program. Recall component difference to non-recall component: VANOS housing bolt material and treatment.
Production Dates :	JAN 01, 2010 - DEC 31, 2012
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 8 :	2010-2012 BMW X6
Vehicle Type :	LIGHT VEHICLES
Body Style :	SUV
Power Train :	GAS
Descriptive Information :	Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break. Basis for recall population determination: Vehicles which were included in the 2014 extended warranty program. Recall component difference to non-recall component: VANOS housing bolt material and treatment.
Production Dates :	JAN 01, 2010 - DEC 31, 2012
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Vehicle 9 :	2010-2012 BMW Z4
Vehicle Type :	LIGHT VEHICLES
Body Style :	2-DOOR
Power Train :	GAS
Descriptive Information :	Approximately TBD vehicles were manufactured with aluminum bolts for the housing of the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts which, over time, could loosen and eventually break. Basis for recall population determination: Vehicles which were included in the 2014 extended warranty program. Recall component difference to non-recall component: VANOS housing bolt material and treatment.
Production Dates :	JAN 01, 2010 - DEC 31, 2012
VIN Range 1 :	Begin : NR End : NR ☐ Not sequential

Description of Defect :

Description of the Defect :	Please refer to BMW's April 9, 2014 Part 573 report assigned NHTSA Recall ID 14V-176. Recall 14V-176 involved the housing bolts for the variable camshaft timing (VANOS) adjustment unit on the intake and exhaust camshafts. The housing of the VANOS adjustment unit is assembled with four aluminum bolts. Due to a quality fault, the aluminum bolts can loosen over time and under certain circumstances the bolt heads may break. The VANOS assembly is controlled electrically by valves actuated via engine oil pressure. If the bolt heads loosen or break, the VANOS may leak internally, resulting in the affected camshaft not being adjusted correctly anymore. Since the camshaft position is monitored by the engine electronics, it will be recognized that the camshaft position is deviating from the target position. As a result, the reduced engine power Limp-Home mode will be activated.
FMVSS 1 :	NR
FMVSS 2 :	NR
Description of the Safety Risk :	In very rare cases, the engine could stall during operation which could lead to a crash.
Description of the Cause :	NR
Identification of Any Warning that can Occur :	The driver will be notified by the Check Engine (or Service Engine Soon) warning light and a Check Control message that the reduced engine power Limp-Home mode is activated either immediately or at startup of the next driving cycle. The driver will notice a distinct change in engine running condition, reduced engine power, and hear increased engine noise. In rare cases, the engine cannot be started after switching off.

Involved Components :

Component Name 1 :	VANOS Bolt
Component Description :	VANOS Bolt
Component Part Number :	8602263

Supplier Identification :

Component Manufacturer

Name :	Hilite Germany GmbH
Address :	Weberstrasse 17 Nuertingen Foreign States 72622
Country :	Germany

Chronology :

Please refer to BMW's April 9, 2014 Part 573 report assigned NHTSA Recall ID 14V-176. In addition to 14V-176, other Model Year 2010-2012 BMW vehicles equipped with the in-line 6-cylinder engine were included in an Extended Warranty Program with terms of 10 years / unlimited mileage.

Subsequent to the implementation of the 2014 safety recall and the extended warranty program, the field continued to be monitored. As vehicles within the extended warranty program "aged-out", it became apparent that some of those vehicles also started to experience the issue. As monitoring continued, an increasing number of vehicles were found to exhibit various symptoms.

In early April 2023, an engineering investigation was initiated. Engineering and technical development information, as well as, field data was collected.

Between May and August, the information was analyzed, but it was not yet clear which vehicles may have experienced a no-start condition, an engine emergency-mode condition, and/or a stalling condition. Further in-depth analyses were necessary.

In September, the focus of the in-depth analyses consisted of a detailed review of the warranty claims and associated technician and customer comments to assess specific failure modes.

In October, the analyses concluded that an unwanted number of vehicles may have experienced a stalling condition.

Vehicle assembly information and the extended warranty program details were reviewed to determine the number, and production dates, of potentially affected vehicles.

On October 13, 2023, BMW decided to conduct a voluntary safety recall.

BMW has not received any reports, nor is BMW otherwise aware, of any accidents or injuries related to this issue.

Description of Remedy :

Description of Remedy Program :	The four VANOS bolts will be replaced. Owners will be notified by First Class mail advising them of the recall and to schedule an appointment with an authorized BMW dealer to have the remedy performed for free. Owners who have had this remedy performed at their own expense prior to the recall notification, may be eligible for reimbursement according to BMW Group's reimbursement plan in accordance with 49 CFR 573.13 and 49 CFR 577.11.
How Remedy Component Differs from Recalled Component :	Recall component: VANOS Bolt– part number: 8602263

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

Recall Schedule :

Description of Recall Schedule :	Dealer notification is expected to begin and end on October 27, 2023. Owner notification is expected to begin and end on December 12, 2023.
Planned Dealer Notification Date :	OCT 27, 2023 - OCT 27, 2023
Planned Owner Notification Date :	DEC 12, 2023 - DEC 12, 2023

* NR - Not Reported