#### OMB Control No.: 2127-0004

NR

### **Part 573 Safety Recall Report**

Manufacturer Name : BMW of North America, LLC Submission Date : APR 18, 2018 NHTSA Recall No.: 18V-248 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

#### **Vehicle Information :**

venicle information :						
Vehicle 1:	2011-2012 BMW 550i, 550i xDrive					
Vehicle Type :	LIGHT VEHICLES					
Body Style :	4-DOOR					
Power Train :	GAS					
Descriptive Information :	Approximately TBD vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.					
	Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.					
	Recall component difference to non-recall component: Recall vehicles contain electric auxiliary water pumps of a specific design level, while non-recalled vehicles contain electric auxiliary water pumps of an improved design level.					
Production Dates ·	AUG 01, 2010 - DEC 31, 2011					
VIN Range 1:						
Vehicle 2:	2011-2012 BMW 550i Gran Turismo, 550i Gran Turismo xDrive					
Vehicle Type :	LIGHT VEHICLES					
Body Style :	4-DOOR					
Power Train :						
Descriptive Information :	Approximately TBD vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.					
	Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric					
The in						



Number of potentially involved :

Estimated percentage with defect : 1%

**Population :** 

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	auxiliary wa	ter pump desig	gn level can be traced t	o specific VIN.	
	auxiliary wa	ter pumps of a		onent: Recall vehicles con while non-recalled vehicle ssign level.	
Production Dates :	AUG 01, 201	0 - DEC 31, 201	11		
VIN Range 1: I	Begin :	NR	End: NR	Not :	sequential
Vehicle 3 : Vehicle Type : Body Style : Power Train : Descriptive Information :	LIGHT VEHIO SUV HYBRID ELE Approximato	CTRIC ely TBD vehicle		•	ater pump
	Basis for rec records were pump (of a s auxiliary wa	all population e reviewed to o pecific design ter pump not b	determination: Vehicl letermine the end-dat level) being recalled a	e assembly and supplier p e of the electric auxiliary nd the start-date of the ele erent specific design leve	water ectric
	auxiliary wa	ter pumps of a		nent: Recall vehicles con vhile non-recalled vehicle sign level.	
Production Dates : VIN Range 1 : I		0 - DEC 31, 20 NR	End: NR	□ Not :	sequential
Vehicle 4 : Vehicle Type : Body Style : Power Train : Descriptive Information :	Convertible LIGHT VEHIC 2-DOOR GAS Approximate	CLES ely TBD vehicle	es were equipped with		
	Basis for rec records were pump (of a s auxiliary wa	all population e reviewed to o pecific design ter pump not b	determine the end-dat level) being recalled a	e assembly and supplier j e of the electric auxiliary nd the start-date of the ele erent specific design leve	water ectric
				onent: Recall vehicles con while non-recalled vehicle	

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Production Dates :					
VIN Range 1:	Begin :	NR	End: NR		Not sequential
	LIGHT VEHICLI 2-DOOR GAS Approximately	ES TBD vehicles we	ere equippe	le, MINI JCW Convertible ed with an electrical aux e defective over time.	
	records were re pump (of a spec auxiliary water auxiliary water Recall compone	eviewed to deter cific design level pump not being pump design lev ent difference to	mine the er ) being reca recalled (o vel can be tr non-recall o	Vehicle assembly and s nd-date of the electric as alled and the start-date of a different specific des raced to specific VIN. component: Recall vehi	uxiliary water of the electric sign level). Electric icles contain electri
	electric auxiliar	y water pumps		level, while non-recallee ved design level.	l vehicles contain
Production Dates : VIN Range 1 : 1		DEC 31, 2011 NR	End: NR	2	☐ Not sequential
	LIGHT VEHICLI 4-DOOR	-	Countryma	an, MINI Cooper S Coun	tryman ALL4
Descriptive Information :				ed with an electrical aux e defective over time.	iliary water pump
	records were re pump (of a spec auxiliary water	eviewed to deter cific design level pump not being	mine the er ) being reca recalled (o	Vehicle assembly and s nd-date of the electric as alled and the start-date of a different specific des raced to specific VIN.	uxiliary water of the electric
	auxiliary water	pumps of a spec	ific design	component: Recall vehi level, while non-recalled ved design level.	
Production Dates : VIN Range 1 : 1		DEC 31, 2011 NR	End: NR		Not sequential
	LIGHT VEHICLE		50i xDrive,	750Li xDrive, 760Li (in	cluding Alpina B7)

	records were re pump (of a spec	viewed to deter	mine the end-date of t	sembly and supplier production the electric auxiliary water he start-date of the electric
Vehicle Type : Body Style : Power Train :	GAS Approximately	ES TBD vehicles we		electrical auxiliary water pump over time.
Production Dates : VIN Range 1 :		DEC 31, 2011 NR	End: NR	☐ Not sequential
	auxiliary water	pumps of a spec		t: Recall vehicles contain electric e non-recalled vehicles contain level.
	records were re pump (of a spec auxiliary water	viewed to deter ific design level pump not being	mine the end-date of t being recalled and th	sembly and supplier production the electric auxiliary water he start-date of the electric ht specific design level). Electric ecific VIN.
Descriptive Information :	•		re equipped with an e nay become defective	electrical auxiliary water pump over time.
Body Style : Power Train :		2		
	2011-2012 BMV		X5 M	
Production Dates : VIN Range 1 :		DEC 31, 2011 NR	End: NR	☐ Not sequential
	auxiliary water electric auxiliar	pumps of a spec y water pumps o		t: Recall vehicles contain electric e non-recalled vehicles contain level.
	records were re pump (of a spec auxiliary water	viewed to deter ific design level pump not being	mine the end-date of t being recalled and th	sembly and supplier production the electric auxiliary water he start-date of the electric ht specific design level). Electric ecific VIN.
Descriptive Information :			re equipped with an e nay become defective	electrical auxiliary water pump over time.
Power Train :	GAS			

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			being recalled (of a diffign level can be traced t	ferent specific design level to specific VIN.	l). Electric
	Recall comp auxiliary wa	onent differen ter pumps of	nce to non-recall compo	onent: Recall vehicles cont while non-recalled vehicle	
Production Dates :	AUG 01, 201	0 - DEC 31. 20	)11		
VIN Range 1:1		NR	End: NR	Not s	sequential
Vahiala 10.	9011 9019 1	DMW Actively	ubrid7		
Vehicle 10 : Vehicle Type :			ybriu7		
Body Style :		CILD			
Power Train :		ECTRIC			
Descriptive Information :			les were equipped with	an electrical auxiliary wa	ter pump
I I I I I I I I I I I I I I I I I I I		v	which may become defe	e e	I I I
	Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.				
	auxiliary wa	ter pumps of		onent: Recall vehicles cont while non-recalled vehicle esign level.	
Production Dates :	AUG 01, 201	0 - DEC 31. 20	011		
VIN Range 1:1		NR	End: NR	Not s	sequential
V 1 · 1 44	0011 00101				
Vehicle T1 : Vehicle Type :			oper S, MINI JCW		
Body Style :		ULES			
Power Train :					
Descriptive Information :	Approximat	0	les were equipped with vhich may become defe	5	ter pump
	records wer pump (of a s auxiliary wa	e reviewed to specific design ter pump not	determine the end-dat level) being recalled a	le assembly and supplier p e of the electric auxiliary v nd the start-date of the ele ferent specific design level to specific VIN.	water ectric
	-		-	onent: Recall vehicles cont while non-recalled vehicle	

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Production Dates :				
VIN Range 1:1	Begin :	NR	End: NR	☐ Not sequential
Vehicle 12 : Vehicle Type : Body Style : Power Train :	LIGHT VEHIO 2-DOOR		oper S Clubman, MINI JCW (	Clubman
Descriptive Information :		•	es were equipped with an e hich may become defective	electrical auxiliary water pump e over time.
	records were pump (of a sp auxiliary wat	e reviewed to pecific design ter pump not	determine the end-date of level) being recalled and the	nt specific design level). Electric
	auxiliary wat	ter pumps of a		t: Recall vehicles contain electri e non-recalled vehicles contain 1 level.
Production Dates : VIN Range 1 : 1		0 - DEC 31, 20 NR	11 End: NR	Not sequential
Vehicle 13 : Vehicle Type : Body Style : Power Train :	LIGHT VEHIO 2-DOOR		oper S Roadster, MINI JCW I	Roadster (2 Seater)
Descriptive Information :	11	0	es were equipped with an e hich may become defective	electrical auxiliary water pump e over time.
	records were pump (of a sp auxiliary wat	e reviewed to pecific design ter pump not	determine the end-date of level) being recalled and the	ne start-date of the electric nt specific design level). Electric
	auxiliary wat	ter pumps of a		t: Recall vehicles contain electri e non-recalled vehicles contain 1 level.
Production Dates : VIN Range 1 : 1		0 - DEC 31, 20 NR	11 End: NR	Not sequential
Vehicle 14 : Vehicle Type : Body Style :	LIGHT VEHIO	Rolls-Royce Gł CLES	nost	

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rower mann.	GAS				
Descriptive Information :	<ul> <li>Approximately TBD vehicles were equipped with an electrical auxiliary water pump of a specific design level which may become defective over time.</li> <li>Basis for recall population determination: Vehicle assembly and supplier production records were reviewed to determine the end-date of the electric auxiliary water pump (of a specific design level) being recalled and the start-date of the electric auxiliary water pump not being recalled (of a different specific design level). Electric auxiliary water pump design level can be traced to specific VIN.</li> </ul>				
	auxiliary wa		specific desi	ign level, while	t: Recall vehicles contain electre e non-recalled vehicles contain e level.
Production Dates :	AUG 01, 201	0 - DEC 31, 201	1		
VIN Range 1:		NR	End :	NR	Not sequentia
Power Train : Descriptive Information :	Approximate of a specific Basis for rec records wer pump (of a s auxiliary wa auxiliary wa Recall comp auxiliary wa	design level wh call population e reviewed to c specific design l ter pump not b ter pump desig onent difference	nich may bed determinatio determine th level) being to oeing recalled gn level can b ce to non-rec specific dest	come defective on: Vehicle as le end-date of recalled and th d (of a difference traced to sp call componence ign level, while	sembly and supplier productio the electric auxiliary water ne start-date of the electric nt specific design level). Electri ecific VIN. t: Recall vehicles contain elect e non-recalled vehicles contain
		0 - DEC 31, 201	1.4		

### **Description of Defect :**

Description of the Defect :	The issue involves the electric auxiliary water pump on the models equipped with 4-cylinder turbocharged engines (MINI) and 8- and 12-cylinder turbocharged engines (BMW). The electric auxiliary water pump is controlled electronically by an engine control unit. After switching off the engine, the electric auxiliary water pump conducts heat away from the turbocharger.
	Under certain conditions, the electric auxiliary water pump's electronic circuit board can malfunction. The malfunction can occur as a result of certain design features in combination with high operating temperatures. Under these conditions, this can lead to a failure of the electric auxiliary water pump. In some cases, the circuit board can overheat.
FMVSS 1 :	NR
FMVSS 2 :	NR
Description of the Safety Risk :	In an extreme case, overheating of the circuit board can lead to smoldering of the electric auxiliary water pump. If smoldering occurs, it cannot be excluded that this may also lead to an engine compartment or vehicle fire.
Description of the Cause :	NR
Identification of Any Warning that can Occur :	NR

#### **Supplier Identification :**

### Component Manufacturer

Name : Pierburg Pump Technology GmbH

Address : Alfred-Pierurg-Str. 1

Neuss FOREIGN STATES 41460

Country: Germany

#### Chronology :

Please refer to BMW's October 20, 2011, Part 573 report assigned NHTSA Recall ID 11V-521 and BMW's January 10, 2012, Part 573 report assigned NHTSA Recall ID 12V-008.

In October 2017, BMW inspected a Model Year 2011 MINI Cooper S regarding a field incident in which the vehicle exhibited similar conditions to vehicles subject to 12V-008. The subject vehicle was not included in 12V-008. BMW initiated an engineering analysis and a review of its field data.

In December 2017, BMW inspected a Model Year 2011 550i xDrive regarding a field incident in which the vehicle exhibited similar conditions to vehicles subject to11V-521. The subject vehicle was not included in 11V-521. BMW continued its engineering analysis and review of field data. In January 2018, BMW inspected a Model Year 2012 BMW 750i regarding a similar field incident.

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After a review of field data and engineering analyses, the results showed that while several design changes were made to the electric auxiliary water pump, including an enlarged circuit path space, a gap enlargement between the hall sensor holder and printed circuit board, and measures at tin plating and soldering process, the electric auxiliary water pumps still experienced some electro-migration. BMW concluded that the electric auxiliary water pumps provided by Pierburg with the improved design were exhibiting similar failures to the electric auxiliary water pumps that were previously recalled.

Production records were reviewed to determine the number and production range of potentially affected vehicles.

On April 11, 2018, BMW decided to conduct a voluntary recall.

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

#### **Description of Remedy :**

Description of Remedy Program :	Owners will be notified by First Class mail and instructed to take their vehicle to an authorized BMW center / MINI dealer to have the electric auxiliary water pump replaced for free. Owners who have replaced the electric auxiliary water pump 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	Recall component: Electric auxiliary water pump.						
from Recalled Component :		Motor	Model				
	7 619 360	N14/18	MINI				
	7 604 525	S63	X5M, X6M				
	7 604 528	N63	X5, X6, 5 Series, 5 Series GT, 6 Series, 7				
	Series		-, -, ,				
	7 595 628	N63	X6 Hybrid				
	7 624 087	N63	7 Series Hybrid				
	7 624 086	N74	7 Series; Rolls-Royce Ghost				
	11 501 601	Alpina	7 Series (Alpina B7)				
Identify How/When Recall Condition was Corrected in Production :	NR						
Recall Schedule :							
Description of Recall Schedule	Dealer notifica	tion is nlanned	to begin and end on April 18, 2018				
Description of Recail Schedule .	: Dealer notification is planned to begin and end on April 18, 2018. Owner notification is planned to begin and end on June 11, 2018.						
Planned Dealer Notification Date :	APR 18, 2018 -	- APR 18, 2018					
The information	contained in this	report was subm	itted pursuant to 49 CFR §573				

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Planned Owner Notification Date : JUN 11, 2018 - JUN 11, 2018

\* NR - Not Reported

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