

SUBJECT: Air compressor head coolant leakage

Department: Service
 Section: Brakes
 Model(s): ALL
 Model Year(s): 2011, 2012 & 2013
 Effective Date: July 25, 2014
 Form #: TB BR-11
 Rev #: N/A
 Supersedes: N/A

Purpose:

To advise the GH7 engine air compressor cylinder head can cause coolant leakage into the air system. Initial customer complaint of coolant loss, engine overheat and/or fault code: MID128 PID110 FMI0 (Coolant Temperature, Critically above range) may be due to leaking air compressor head.

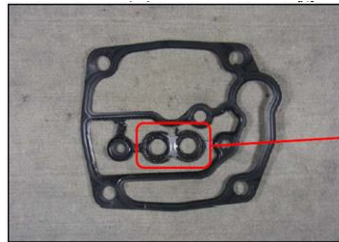
Concern:

Coolant leakage occurs in the air compressor head from damaged head gasket and valve seat. The damage is caused by cavitation due to coolant boiling.

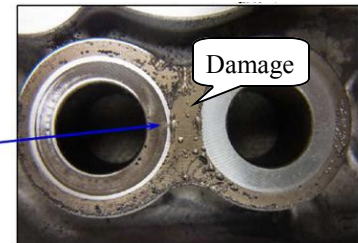
Air compressor head



Head gasket



Valve seat



Countermeasure:

Alunite treatment has been added to the valve seat sealing surface.

w/o Alunite

w/ Alunite



Parts:

Air Compressor Head Repair Kit **P/N-5222356249** is available through normal parts channel. This Kit contains all parts need to replace the head.

Repair Instructions:

Inspect the air tank and air dryer for the presence of coolant. If coolant is found replace the air compressor head.

Do Not Remove the Air Compressor.

1. Refer to IMPACT section 561Cylinder Head, Compressor, Replacement for procedures to replace the air compressor head.
2. Check Coolant level and Concentration. Reference SNL-072 for coolant specifications.
3. Flush the air lines and replace the air dryer desiccant.

Warranty Information:

For vehicles under the Base New Vehicle Limited Warranty or 36 month Extended Warranty submit a claim with the following information.

Failed Part Number: 5221570595

Trouble Code: 18300282

Labor Operations:

1. 183-E 3.5 hrs R&R compressor head, flush air lines & air tank
2. 786-A 0.5 hrs R&R dryer
3. 786-B 1.5 hrs R&R dryer desiccant

The Information contained in this bulletin should not be interpreted as the basis for a warranty claim.