

HDEP Cylinder Head Gasket Sealing Issues

COMMUNICATION:

FIELD SOLUTION: Replace liner(s) on cylinder(s) with a confirmed compression seal leak on the head gasket

PUBLISH DATE: NA

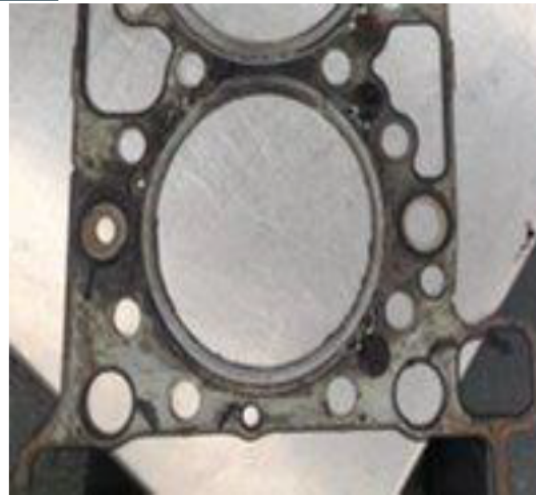
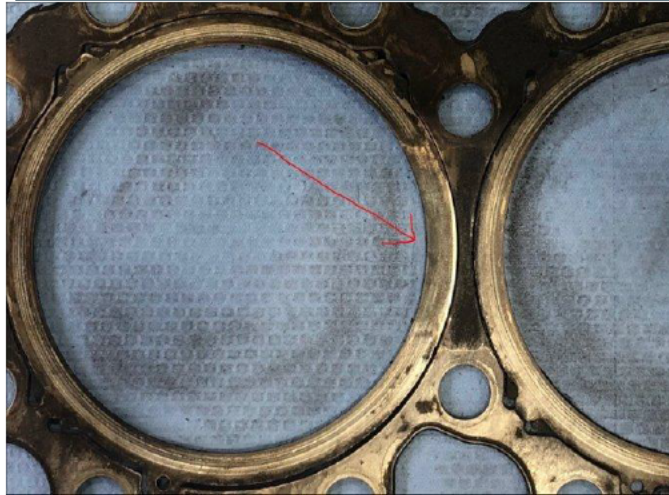
TOPIC BACKGROUND:

PRIMARY EFFECT:

- Customer complaint will be a coolant leak at the block/head joint.

AFFECTED MODELS:

VISUALIZATION:



PROGRESS UPDATES:

- Quality has identified the cause of the head gasket failures is being caused by the improper machining of the liner flange and the failure of the compression seal.

TOPIC RESOLUTION INFORMATION:

PRODUCTION CHANGEOVER WEEK/MONTH:

- TBD

RESOLUTION:

- Progressive damage from CGL is also causing an increased amount of cylinder head replacements due to damage to the fire deck surface.
- Comparison between BOB and WOW engines show no contrast in liner protrusion measurements.
- Inspection results from the supplier show no deviation in bead height measurements on failed cylinder head gaskets.
- Concentration diagram is showing lowest count of failures between cylinder #4 and cylinder #5. Fuji paper test and instrumented bolt test planned to investigate clamp load.
- FEA deep dive and non-nominal FEA analysis requested.