

PARTS & SERVICE NEWS

REF NO. AT04159

DATE Sept. 30, 2004

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SUBJECT: REPAIR PROCEDURE OF OIL LEAKAGE FROM OIL COOLER FOR SAA6D114E-2 ENGINE

PURPOSE: To inform field personnel

APPLICATION: 6D114E-2 Engine S/N 26801378 thru 26803519
 CD110R-2 Crawler Carrier S/N 1501 thru 1521
 GD655-3A Motor Grader S/N 11001 thru 11029
 GD6553Y Motor Grader S/N 4001 thru 4116
 GD675-3C Motor Grader S/N 51001 thru 51011
 GD675-3Y Motor Grader S/N 11001 thru 11017
 PC300-7 Hydraulic Excavator S/N 40001 thru 41105
 PC300LC-7 Hydraulic Excavator S/N 40009 thru 41105
 PC350-7 Hydraulic Excavator S/N 20001 thru 20201
 PC350LC-7 Hydraulic Excavator S/N 20001 thru 20201
 WA380-5 Wheel Loader S/N 60001 thru 61034
 WA400-5 Wheel Loader S/N 70001 thru 70022

FAILURE CODE: A620FF

DESCRIPTION:

1. Introduction

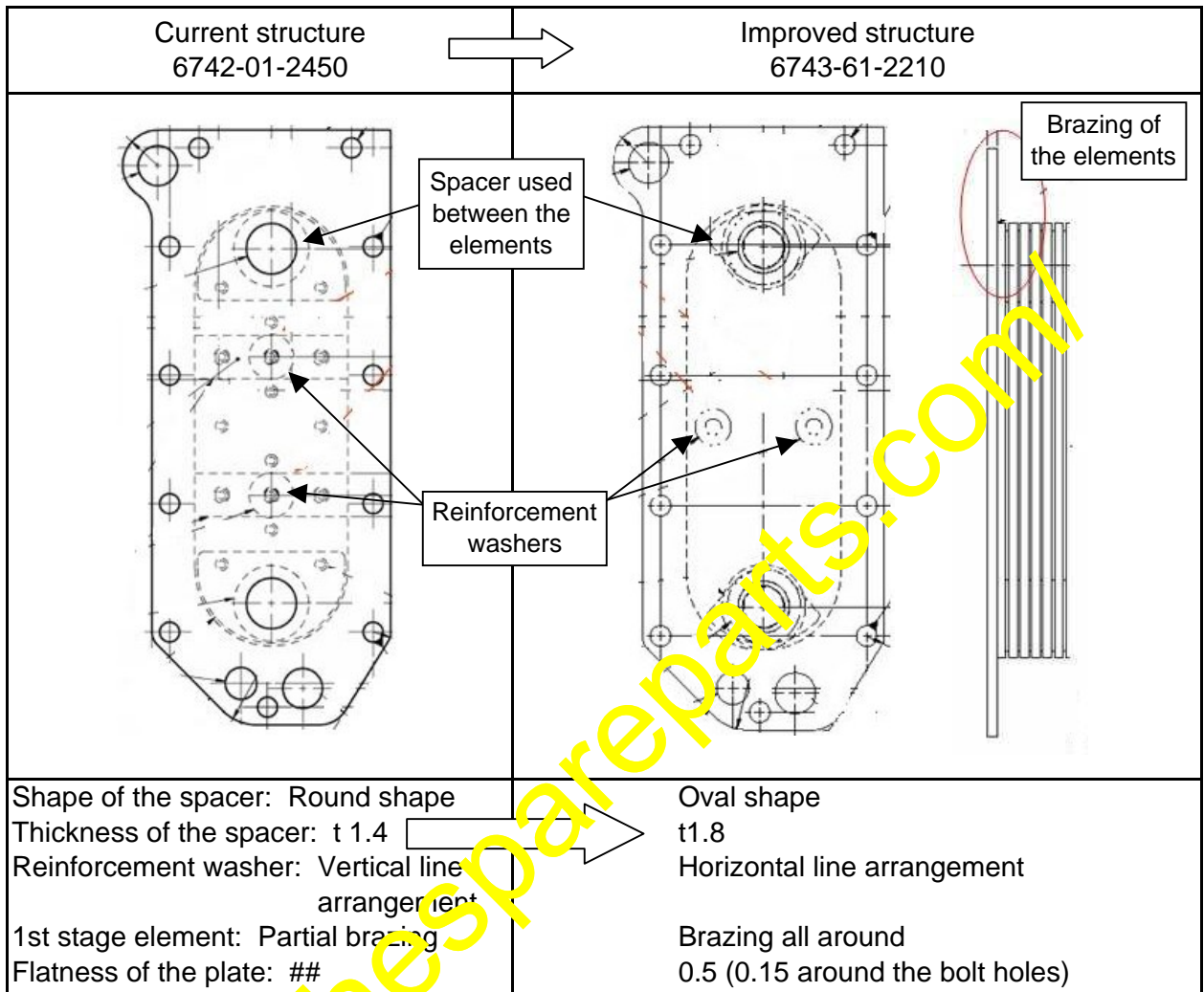
There is a rare possibility that the oil cooler cores for the SAA6D114E-2 engines have cracks and the engine oil may mix into the cooling water in the radiator. When the mixture occurs, repair the failure following the modification procedure described in this service news.

2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
6743-61-2210 (6742-01-2450)	Element	Replacement	1 (1)	Part No. 1
6743-51-4430	Gasket	Replacement	1	Part No. 2 Spare part
6742-01-1080	Gasket	Replacement	1	Part No. 3 Spare part

1. Details of the modification

The structure of the oil cooler element has been modified as shown in the figure below to improve the rigidity against vibrations.



2. Modification procedure

- 1) Referring to the Shop Manual, drain the cooling water from the radiator. Also drain the cooling water from the cylinder block of the engine through the cooling water drain cock of the cylinder block.
- 2) Removing the mounting bolts for the oil cooler cover, take out the oil cooler element.

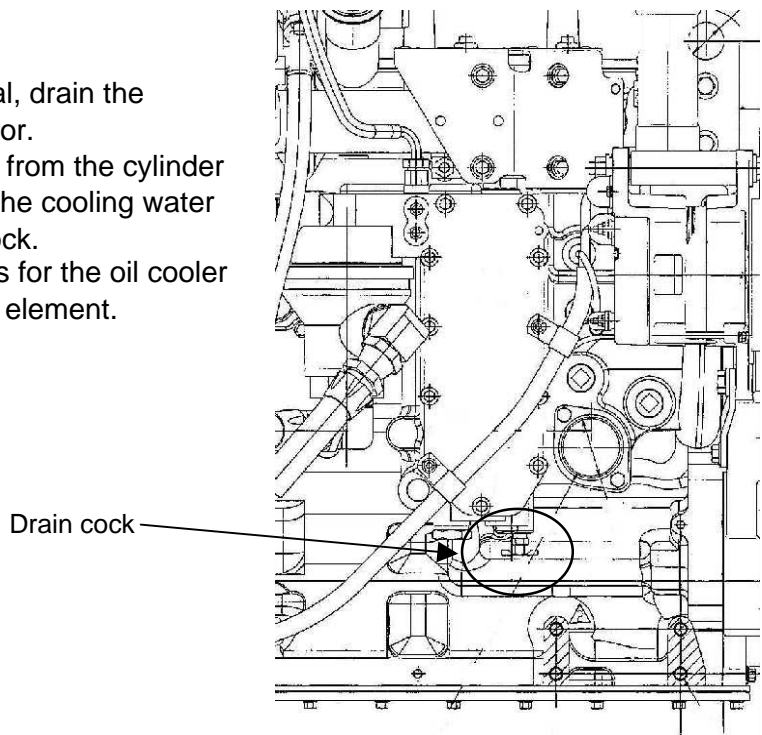


Fig. 1

- 3) Replace the oil cooler element <1> (6742-01-2450) with the improved oil cooler element (6743-61-2210).
- 4) Replace the gasket <2> (6743-51-4430) and gasket <3> (6742-01-1080) with new parts.

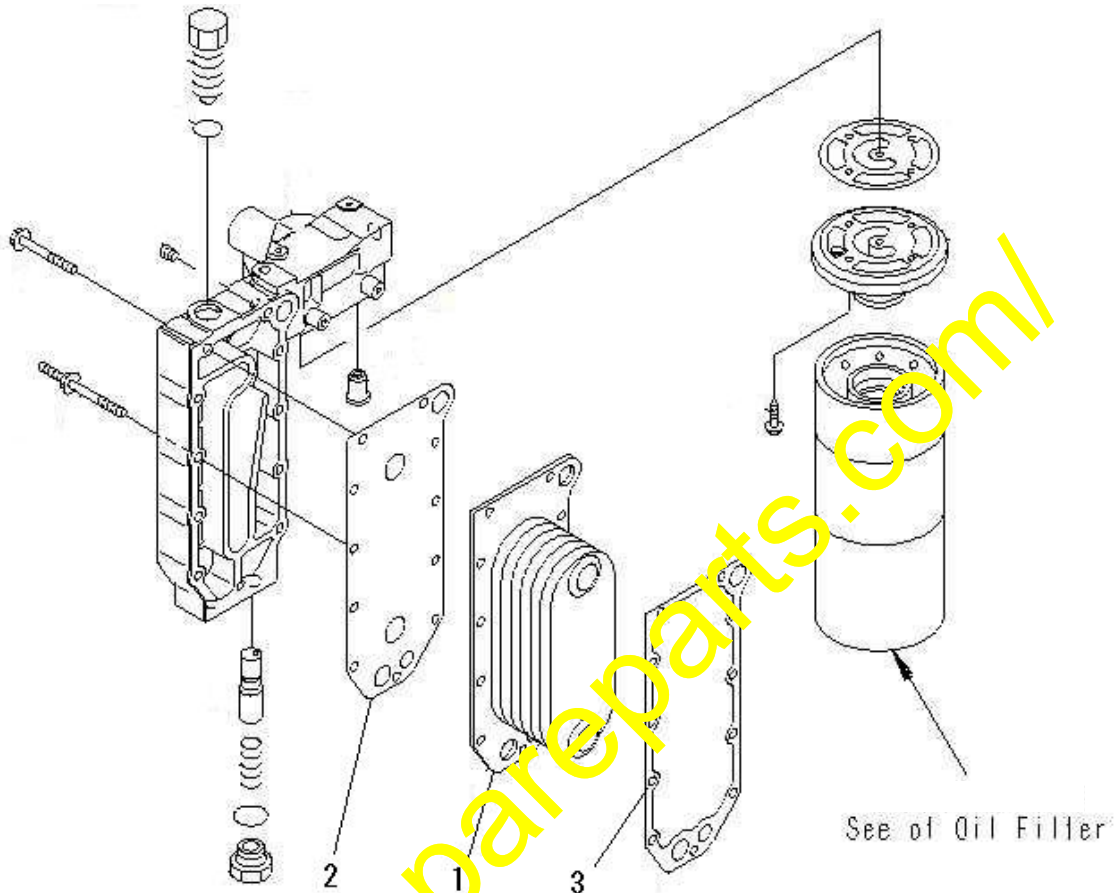


Fig. 2

- 5) Tighten the oil cooler cover mounting bolts in the tightening order shown in the drawing indicated on the RH side at the tightening torque of 24 ± 4 Nm.
- 6) Refill the radiator with cooling water and carry out a warming up operation of the engine. After that, check that oil leakage and water leakage are not occurring from various sections.

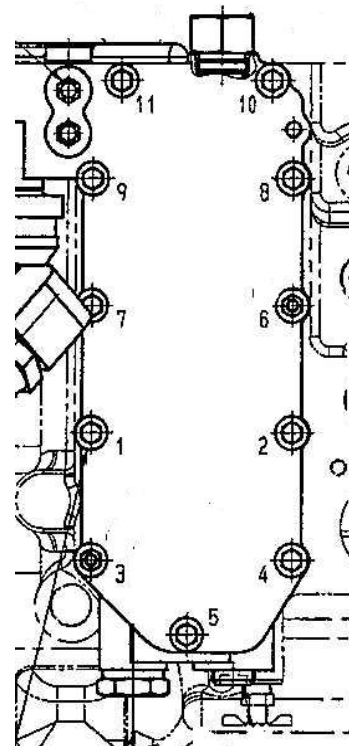


Fig. 3