

PARTS & SERVICE NEWS

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(C)

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SUBJECT: REPAIR PROCEDURE FOR OIL LEAKAGE FROM OIL COOLER COVER

PURPOSE: To inform Field Personnel

APPLICATION: CD110R-2 Crawler Carriers, S/N 1501 and up
GD655A-3 Motor Graders, S/N 4001 and up
GD675A-3 Motor Graders, S/N 11001 and up
PC300-7 Hydraulic Excavators, S/N 40001 and up
PC300LC-7 Hydraulic Excavators, S/N 40009 and up
PC350-7 Hydraulic Excavators, S/N 20001 and up
PC350LC-7 Hydraulic Excavators, S/N 20007 and up
WA380-5 Hydraulic Excavators, S/N 60001 and up
WA400-5 Hydraulic Excavators, S/N 70001 and up

FAILURE CODE: A624HA

DESCRIPTION:

1. Introduction:

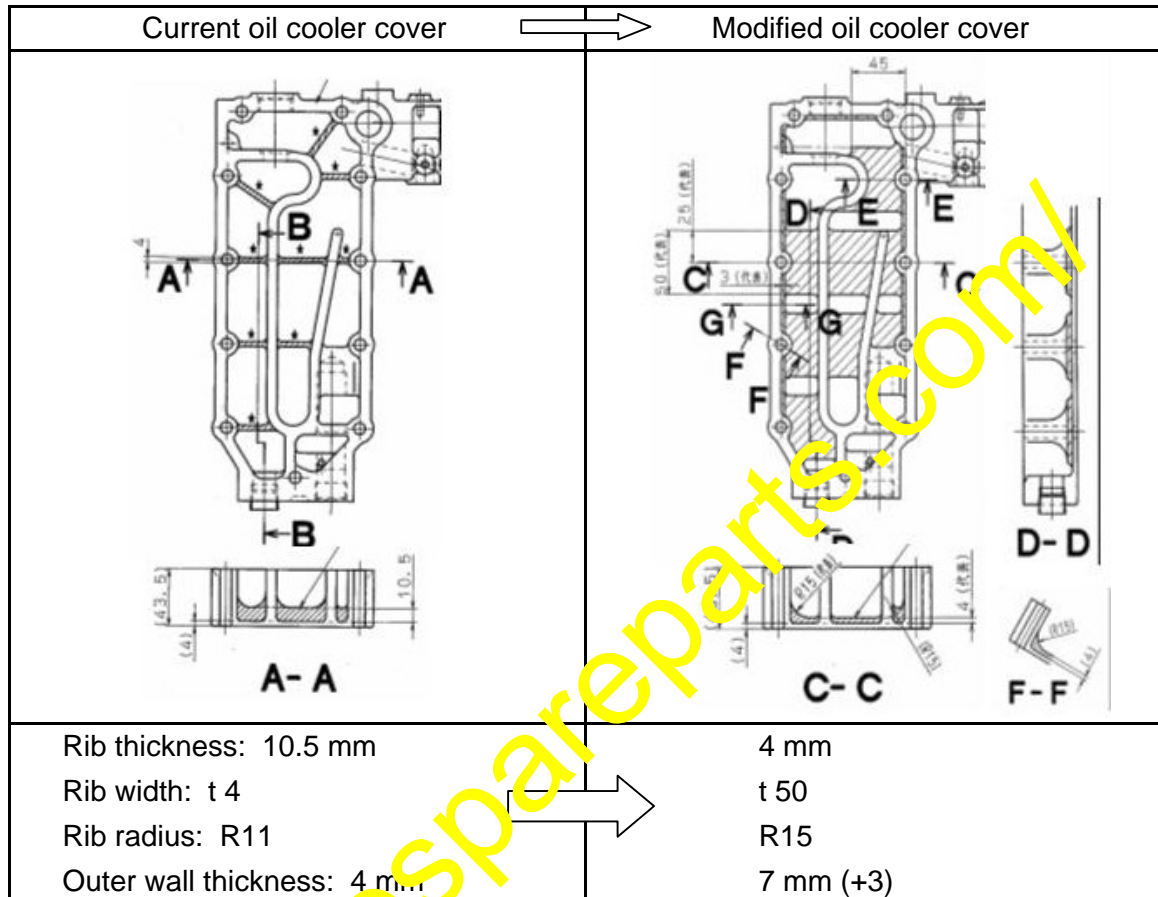
Although it is rare, the oil cooler cover for the SAA6D114E-2 Engines may crack resulting in oil leakage failure from the oil cooler cover. If this occurs, make the modification as described in this **Parts & Service News**.

2. List of Parts:

Part No.	Part Name	Purpose of Part	Qty	Remarks
6743-61-2111 (6743-61-2110)	Cover (Cover)	Replacement	1	Part No. 1 for WA380
6743-61-2111 (6742-01-5190)	Cover (Cover)			Part No. 1 except WA380
6731-16-2157	Valve			Part No. 2 Spare Part
6743-51-5560	Gasket			Part No. 3 Spare Part
6742-01-5118	O-Ring			Part No. 10 Spare Part
6742-01-2420	O-Ring			Part No.12 Spare Part
6743-51-4430	Gasket			Part No. 13 Spare Part
6742-01-1080	Gasket			Part No. 15 Spare Part
6731-11-8290	Seal			Part No. 18 Spare Part
6741-61-2120	O-ring			Part No. 19 Spare Part
6742-01-4540	Cartridge			Except PC300 (PC300 uses Remote Oil Filter)

1. Details of the modification

- 1) KOMATSU has reviewed the shapes and the wall thicknesses of the internal ribs of the oil cooler cover to increase the strength of the oil cooler cover.
- 2) KOMATSU unified the oil cooler covers for other machines than the WA380-5 to the oil cooler cover for the WA380-5 as common parts.



2. Modification procedure

- 1) Referring to the Shop Manual, drain the cooling water from the radiator.

Also, drain the cooling water from the engine cylinder block through the cooling water drain cock of the engine cylinder block.

- 2) Remove the oil filter.

In case of the PC300-7, remove the cover <20> shown on the next page.

- 3) Remove the oil cooler cover and the oil cooler.
- 4) Shift the valves and plugs being installed to the current oil cooler cover to the improved new oil cooler cover referring to the procedures described on the next page and after, for respective machine models.

When shifting these parts, wash them sufficiently using the washing oil after removal.

- 5) Replacing the gasket <13> (6743-51-4430) and the gasket <15> (6742-01-1080), fasten the oil cooler core <14> and the oil cooler cover <1> using the bolts <16> and <17>.

Refer to the next page and after, regarding the tightening order for the bolts.

- 6) Replace the oil filter.

- 7) Charge the cooling water and carry out warming up operation of the engine. After that, confirm that there is no oil leakage nor water leakage at each section.

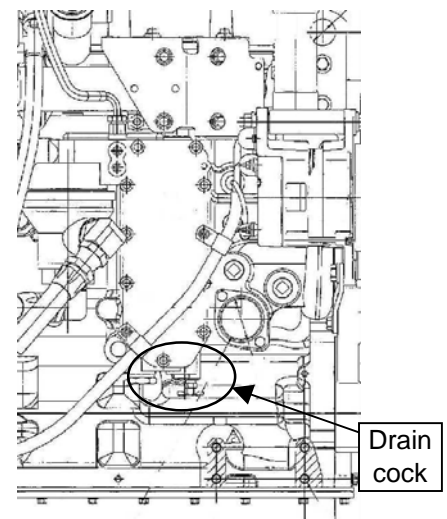
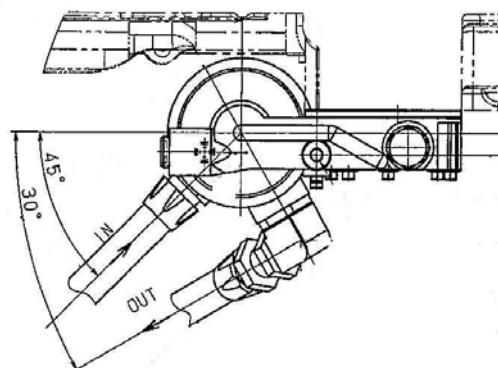
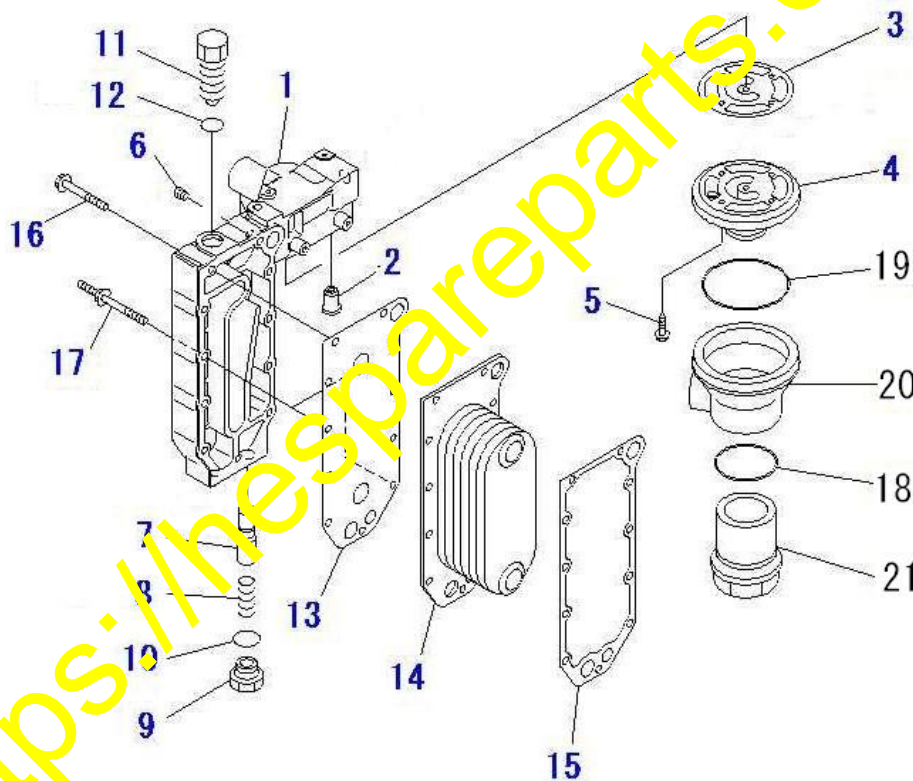


Fig. 1

· In case of the PC300-7

- 1) Replacing the pressure relief valve <2> (6731-61-2151), press fit it to the oil cooler cover <1>.
- 2) Replacing the gasket <3> (6742-01-2490), fasten the head <4> using the bolt <5>. (Tightening torque: 24 ± 2 Nm)
- 3) Install the plug <6>. (Tightening torque: 9.8 ± 2 Nm)
- 4) Tighten the plunger <7> and spring <8> with the plug <9>. At this time, replace the seal <10> (6742-01-5118). (Tightening torque: 80 ± 12 Nm)
- 5) Replacing the O-ring <12> (6742-01-2420), tighten the bypass valve <11>. (Tightening torque: 50 ± 5 Nm)
- 6) Replacing the seal <18> (6731-11-8290) and the seal <19> (6741-61-2120), fasten the cover <20> with the adaptor <21>. (Tightening torque: 200 ± 20 Nm)
Regarding the mounting angle of the cover, refer to the Fig. 2 below



Mounting angle of the cover

Fig. 2

- In case of the WA380-5, GD655-3, GD675-3 and CD110R-2
 - 1) Replacing the pressure relief valve <2> (6731-61-2151), press fit it to the oil cooler cover <1>.
 - 2) Replacing the gasket <3> (6742-01-2490), fasten the head <4> using the bolt <5>. (Tightening torque: 24 ± 2 Nm)
 - 3) Install the plug <6>. (Tightening torque: 9.8 ± 2 Nm)
 - 4) Tighten the plunger <7> and spring <8> with the plug <9>. At this time, replace the seal <10> (6742-01-5118). (Tightening torque: 80 ± 12 Nm)
 - 5) Replacing the O-ring <12> (6742-01-2420), tighten the bypass valve <11>. (Tightening torque: 50 ± 5 Nm)

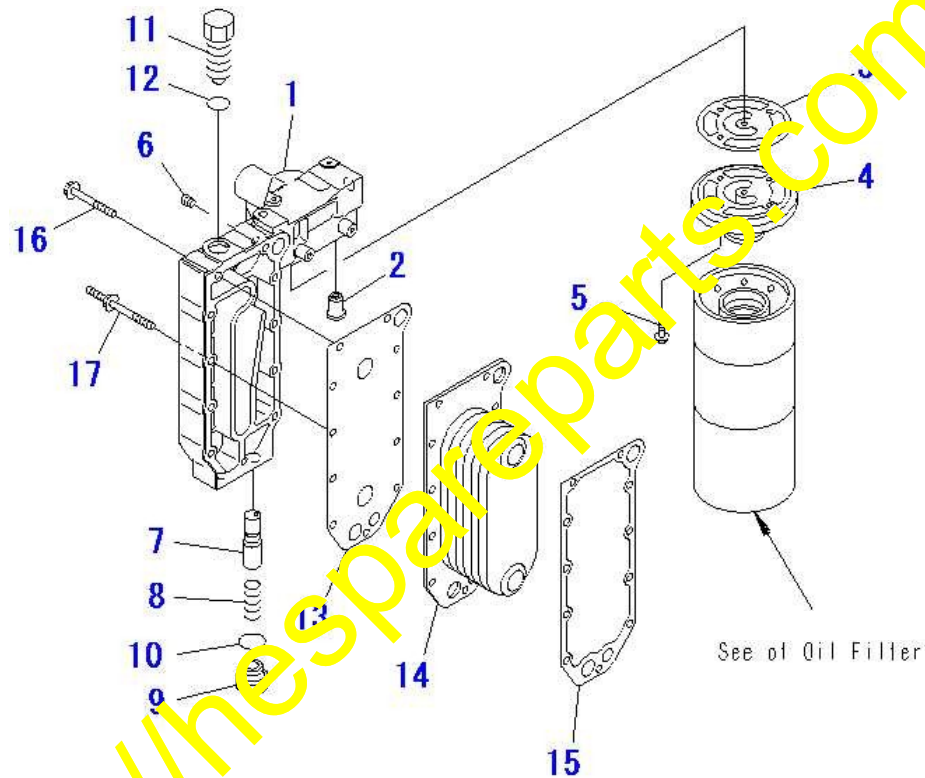


Fig. 3

- Tightening order for the oil cooler cover mounting bolts

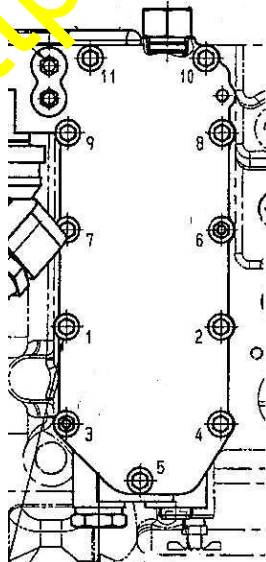


Fig. 4

Tighten the oil cooler cover mounting bolts according to the tightening order shown in Fig. 4 on the LH side at a tightening torque of 24 ± 4 Nm.