MITSUBISHI HEAVY INDUSTRIES, LTD.

MITSUBISHI DECK CRANE

type	subject	Ref. No.
HDC	MAINTENANCE FOR OIL COOLER RADIATOR	AS-DC11-002 Issued: March, 2012

Radiator for oil cooler consists of flow path of oil and alminum alloy fins for cooling oil by air, which connects both headers.
Fins are very thin and of delicate construction, so that periodical maintenance for the fins is necessary to keep its good condition and performance.

This is to explain method for cleaning and maintenance for those fins, for reference.
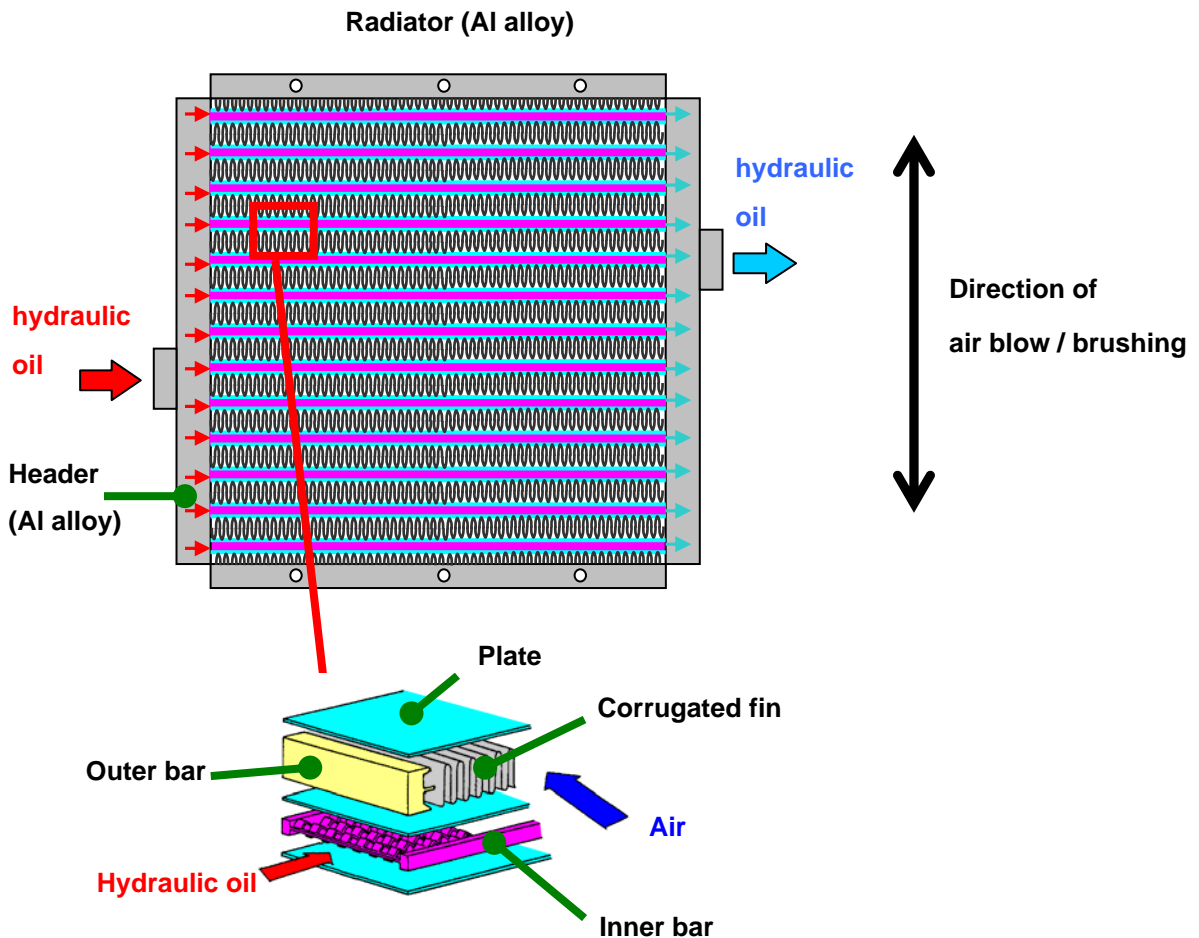
1. Removal of clogged stuff
   1) Usual clogging by dusts, sands, insects, feathers, etc. can be removed by blow of compressed air (3-5kgf/cm^{2}G).
      In case clogging stuff cannot be removed by air blow only, spray water or steam in advance, and then, dry up by air. (Please be care for water not to spill out onto other appliance, because it could be the cause of trouble, etc.)

   2) If clogging stuff is so sticky that it cannot be removed by spray of water or steam, please spray mild detergent. In this case, mild detergent must be flush away by water and dry up completely.
      In the harder case, disassemble radiator and soak it into bath of water or mild detergent.

   3) Please do not use brush for cleaning, to prevent damage of coating of radiator.

Radiator (Al alloy)

hydraulic oil

hydraulic oil

Direction of air blow / brushing

Header (Al alloy)

Plate

Corrugated fin

Outer bar

Air

Hydraulic oil

Inner bar

2. Removal of corrosive stuff

Contaminated stuff in the air, salt content in sea water, etc. can be the cause of earlier corrosion of radiator, so that please carry out cleaning by spray of water periodically.

3. Repair of deformation of fin

In case the surface of fins are deformed by hitting from outside, please repair the deformation carefully by use of pallet or thin-edge scraper (thickness: abt. 0.5-0.8mm, width: abt. 8.0mm), etc.

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