

FIG. 9A-04

FIG. 9A-04: Pump

Pump Component List:

- | | |
|----------------|---------------------------|
| 1. O-ring | 7. Bushing |
| 2. Pump cover | 8. Body |
| 3. Bolt | 9. O-ring |
| 4. Lock washer | 10. Pump gear B |
| 5. O-ring | 11. Oil seal |
| 6. Bushing | 12. Pump shaft and gear A |

FIG. 9A-05: The tractor is equipped with two hydraulic pumps. The front pump, 1, supplies oil to the power steering orbit roll. The rear pump, 2, supplies oil to the 3-point control valve, PTO clutch pack and auxiliary hydraulics (if equipped). Both pumps are identical in construction, except the rear pump has longer gears resulting in larger displacement.

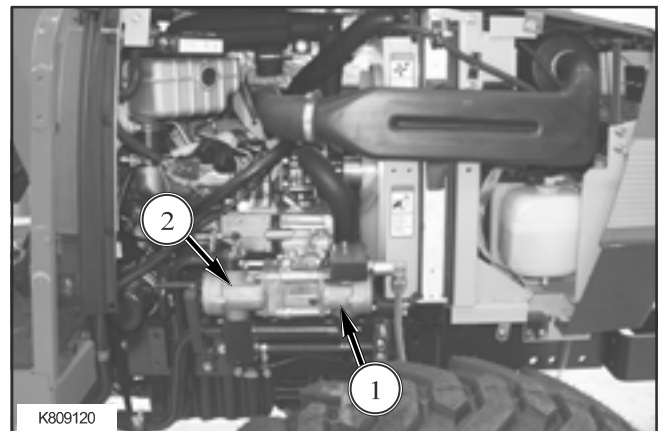


FIG. 9A-05

Overhaul

Remove hydraulic pump.

Disassembly

Before disassembling the pump, wash the outside clean. In the course of disassembling operation, all disassembled parts should be kept aside in a clean place such as on clean paper or cloth and be handled carefully so as to prevent them from becoming dirty or damaged.

Hold the pump in a vice with the mounting flange turned downward.

Remove the six M8 bolts and detach the cover.

Remove the O-ring.

Push up pump gear A from the oil seal side, and the metals (supports) A and B which are above the gear are pushed up a little higher than the cover mounting surface. Then take them out.

Remove pump gears A and B.

Remove bushings A and B installed in the bottom of the body. When they are hard to remove, hit the body lightly with a mallet.

Make sure that all O-rings have been removed out of the bottom of the body.

Inspection and Repair

Check all disassembled parts for damage and wash undamaged or usable parts in clean diesel fuel or kerosene. Inspect all parts referring to these points, and repair or replace defective parts.

FIG. 9A-6: The gear pump is originally designed so that the gears come into light contact with the side of the pump body. Maximum efficiency is attained only after sufficient break-in. Therefore some evidence of contact can be found around the intake port of a pump once used. The normal contact tracing is less than half the length of the gear housing bore and less than 0.05 mm (0.0020 in.) in width. If width A is more than 0.1 mm (0.004 in.), replace the gear pump set.

As shown, the wear will occur mostly on suction side, 1, with least wear on delivery side, 2.

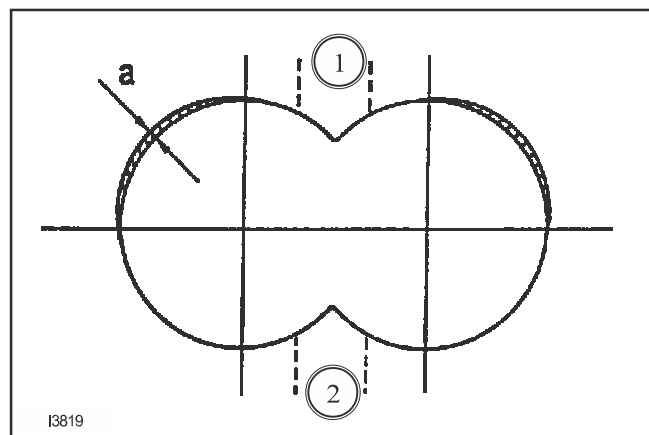


FIG. 9A-6