

**Note:** Regular maintenance and frequent inspections are routine precautions. Practice preventive maintenance before damage occurs. Preventive maintenance can help to avoid a failure. If a failure occurs, an accurate diagnosis of the cause can prevent a recurrence. Information is available to analyze failures for piston pumps and motors. Refer to Special Publication, SEBD0641, "Analyzing Axial Piston Pump and Motor Failures".

**Note:** Many times, the installation of new parts is not necessary. The installation of used parts during reconditioning is acceptable. Used parts can result in a substantial cost reduction. Reusable information is available on piston pumps and motors. Refer to Special Publication, SEBF8032, "Guideline For Reusable Parts - Piston Pumps and Motors". During reconditioning, correct any conditions that might have caused the original failure.

**Note:** Cleanliness is an important factor. Before the disassembly procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism. Dirt and contaminants can damage precision components that are in pumps and motors. All disassembly and assembly procedures must be performed on a clean work surface. Clean all the interior components in clean solvent. Dry all the interior components with compressed air. Plug ports and plug hoses on the machine during repair.

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## NOTICE

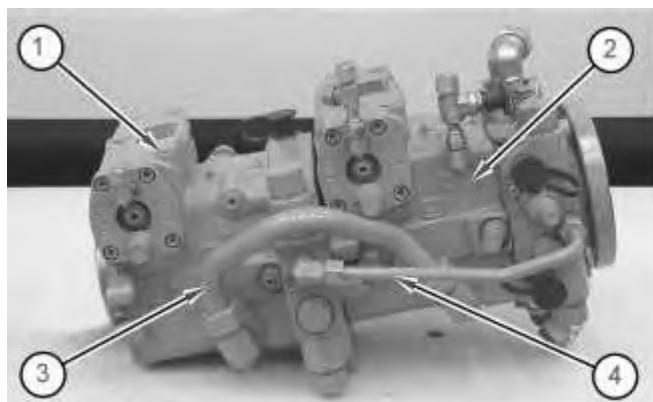
**Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.**

**Refer to Special Publication, NENG2500, "Caterpillar Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.**

**Dispose of all fluids according to local regulations and mandates.**

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**Note:** The hydraulic oil must be contained in the proper manner. Refer to Special Publication, NENG7004, "Contamination Control Catalog".



1. The combined weight of the piston pumps is approximately 84 kg (185 lb).

**Note:** Both pump housings (1) and (2) are identical. Only one pump will be disassembled and assembled.

2. Remove tube assemblies (3) and (4) from the pumps.

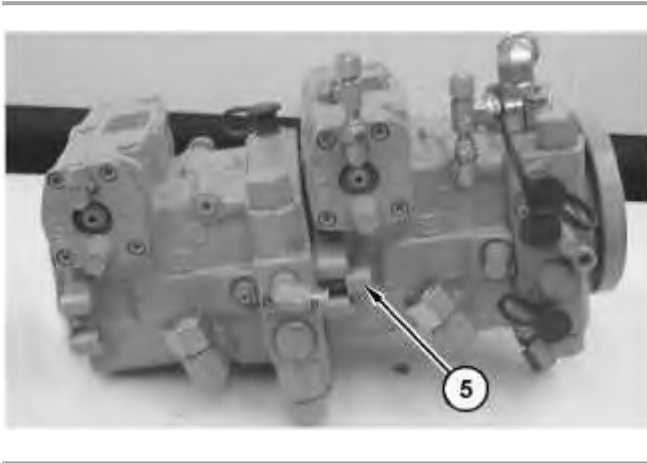


Illustration 2

3. Remove bolts (5) .

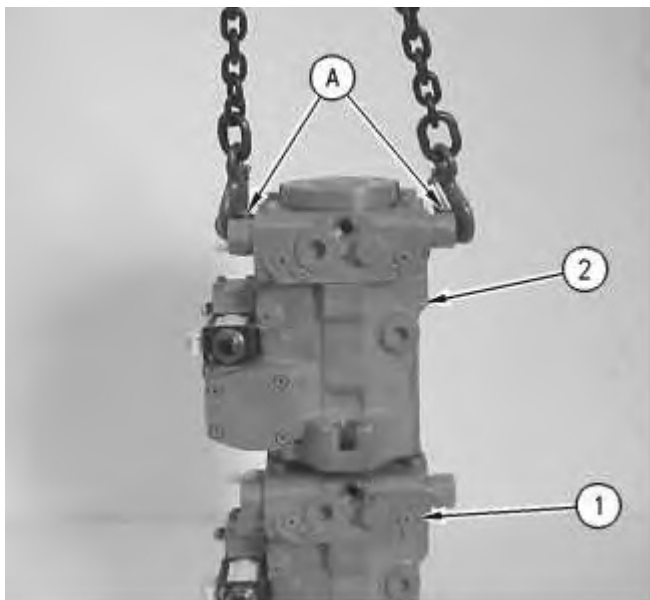


Illustration 3

4. Use Tooling (A) and a suitable lifting device in order to separate pump housing (2) from pump (1) . The weight of pump housing (2) is approximately 42 kg (93 lb).

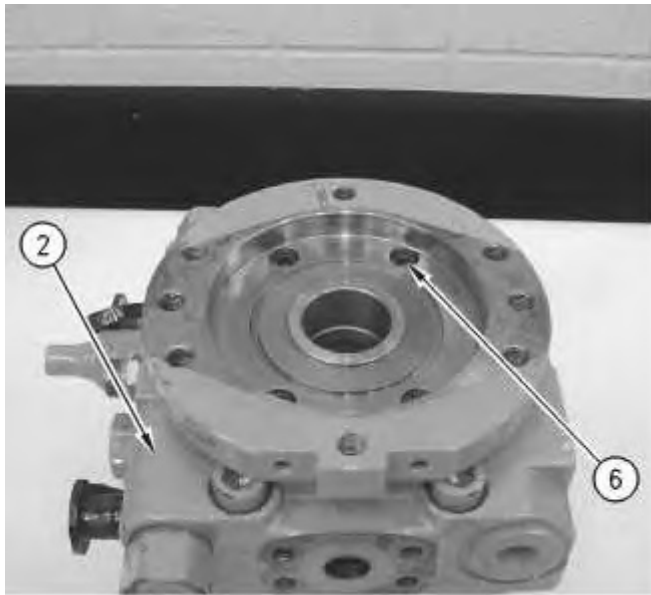


Illustration 4

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5. Remove bolts (6) from pump housing (2) .

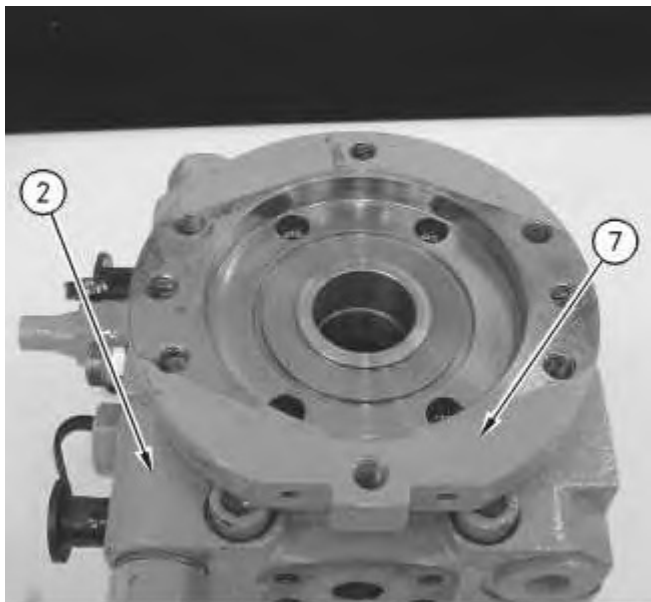


Illustration 5

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6. Place marks on housing (7) for assembly purposes. Remove housing (7) .
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