

HYDRAULIC SYSTEM OIL CHANGE

Initial oil change is at 200 hours then at every 1,000 hours of operation thereafter.

Take precautions that dirt does not enter the system during this operation.

Draining the Oil:

1. Place the handle in the vertical (stowed position) and remove cap from breather plug. (Fig. 1)
2. Remove the breather plug with a 24mm wrench. (Fig 1)
3. Disconnect hydraulic hose from the cylinder and place it in a container to collect the oil. (Fig. 2)
4. Move the travel lever to the **Full Reverse position on the (MVH206, 306, 406)** or **Full Forward position on the (MVH308, 408, 508)** "**past the initial point of resistance**" and hold there or use a rope to tie the lever down and allow the oil to drain completely.
5. Reconnect the hydraulic hose to the cylinder.

Filling with Oil:

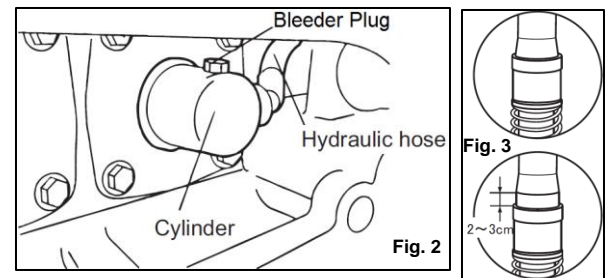
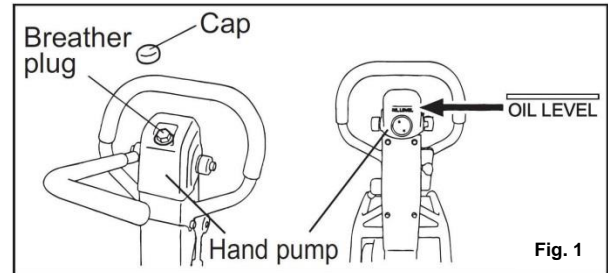
6. Add oil to the hand pump reservoir, (Shell Tellus #32, (550 cc), (18.6 oz).

Bleeding the Cylinder:

7. Remove bleeder plug from the cylinder. (Fig. 2)
 8. With the travel lever in the step 4 position, allow oil to flow out the cylinder bleeder hole until aeration completely disappears then install the bleeder plug and tighten.
 9. Inspect the hand pump oil reservoir level with the handle in the upright position and fill as needed to the proper level. (Fig. 1)
- Note:** Fill only to the proper level. Overfilling will cause oil to surge out the breather plug.

Bleeding the Hand Pump:

10. Release the rope from the travel lever.
Note: The following may require repeating several dozen times.
11. Fully move the travel lever to the **Full Reverse position on the (MVH206, 306, 406)** or **Full Forward position on the (MVH308, 408, 508)** "**past the initial point of resistance**" and hold for 10 seconds then fully move it in the opposite direction and back again. Hold only in the direction indicated.



Note: A check valve opens when the travel lever is moved past the initial point of resistance. Holding for 10 seconds allows time for the air to work its way up past the check valve on into the oil reservoir.

12. Bleeding is completed when the accumulator moves (2~3 cm), (.78~1.18") while moving the travel lever to the **Full Forward position on the (MVH206, 306, 406)** and in **Full Reverse on the (MVH308, 408, 508)**. (Fig.3)
13. Inspect the hand pump oil reservoir level with the handle in the upright position and fill to the proper level, (Do Not Overfill).
14. Install oil reservoir breather plug and cap.

Note: Inspect the oil reservoir's hydraulic oil level every 100 hours of operation with the handle in the upright position.