

Technical Information:

Date: 09/20/06
Subject: Proper Oil Filling Procedure
Product: Motor Driven Pumps

Sigma 2 & 3: General recommendation for maintenance intervals - every 3 months.

Shorter intervals are recommended if operated under load conditions (e.g. continuous operation).

The gear oil should be changed after approx. 5000 duty hours.

Gear oil ISO viscosity class VG 460, e.g. Mobil Gear 634, ProMinent Order No. 7902419 (Amount of oil approx. 0.5L).

-Sigma 2 requires 0.5L

-Sigma 3 requires 0.9L

Hydro: *After approx. 5000 operating hours:* Change the hydraulic oil.
 Gear oil: Mobilube 1 SHC 70W - 90, ProMinent part number 1005823.

Oil quantities:

| Oil quantities required | | Oil quantities supplied |
|-------------------------|-----------------------|-------------------------|
| Single-headed version | Double-headed version | |
| HP2 approx. 2.5L | approx. 2.9L | 3.0L |
| HP3 approx. 3.5L | approx. 4.0L | 4.0L |

Drain hydraulic oil (see fig. 14/15):

(Double-headed version: follow the same steps for each liquid end)

- Set the stroke position knob (2) to "0"
- Unscrew the gearbox vent stopper (3)
- Place an oil container beneath the oil drainage screw (5)
- Unscrew the oil drainage screw (5) from the power end housing
- Drain out the hydraulic oil from the power end
- Place an oil container beneath the hydraulic end
- Unscrew the oil drainage stopper (4) from the hydraulic end
- Drain out the hydraulic oil from the hydraulic end
- Screw in the oil drainage screw (5)
- Screw in the oil drainage stopper (4) with a new seal.

Refilling hydraulic oil

(Double-headed version: follow the same steps for each liquid end)

- Set the stroke positioning knob (2) to “100 %” and open the bypass valve (1) (tighten knurled screw)
- Slowly pour hydraulic oil through the gearbox vent stopper opening (3) until the oil inspection glass (6) is 3/4 covered.
- Start the pump
- Run the pump for 1–2 minutes
- If necessary, add more hydraulic oil
- Screw in the gearbox vent stopper (3) (do not close!) and close the bypass valve (1) (slacken the knurled screw).