The motor driven pumps which have a gear case require a gear oil for lubrication, some of our motor driven pumps which have a Hydraulically Actuated liquid End also need a hydraulic fluid. The following guide gives an overview of what is required.

Gear Oil / Hydraulic Fluid should be replaced every 5000 operating hours

**Sigma 1**  
Permanently lubricated bearings - no service required.

**Sigma 2**  
Gear Oil ISO Class VG 460 e.g. Mobil Gear 634  
Part # 555325  
This pump requires approx. 0.5 litres

**Sigma 3**  
Gear Oil ISO Class VG 460 e.g. Mobil Gear 634  
Part # 555325  
This pump requires approx. 0.9 litres

**Vario**  
All versions VAMa, VAMb, VAMc  
Permanently Lubricated Bearings – no service required

**Hydro 2**  
Standard Oil - Serves as Gear Oil and Hydraulic Fluid  
Gear Oil Mobilube 1 SHC 75W – 90  
Part # 1005823  
Single Head Requires approx. 2.5 litres  
Dual Head Requires approx. 2.9 litres
**Hydro 3**
Gear Oil Mobilube 1 SHC 75W – 90 Serves as Gear Oil and Hydraulic Fluid
Part # 1005823
Single Head Requires 3.5 litres
Dual Head Requires 4.0 litres

**Meta**
Meta HM and HK versions.
Gear Oil ISO Class VG 460 e.g. Mobil Gear 634
Part # 555325
This pump requires approx 0.5 litres

**Makro TZ HM**
Gear Oil Mobilgear 634 VG 460
Part # 1004542
Required 3.5 litres

**Makro TZ HK**
Mobilgear 634 VG 460
Part # 1004542
Required 3.5 litres

**Makro TZ HMH**
Gear Oil Mobilgear 634 VG 460
Part # 1004542
Required 3.5 litres

  Hydraulic Oil Mobiloil DTE 11
  Part # 555332
  Requires approx. 0.65 litres

**Makro V HM**
Mobilgear 634 VG 460
Part # 1004542
Requires 16.5 litres
**Makro V HK**
Mobilgear 634 VG 460  
Part # 1004542  
Requires 16.5 litres

**Makro V HMH**
Gear Oil  
Mobilgear 634 VG 460  
Part # 1004542  
Requires 16.5 litres

Hydraulic Oil  
Mobiloil DTE 11  
Type 60 – 85 approx. 0.65 litres  
Type 100 130 approx. 1.4 litres  
Part # 555332