

# Hydraulic cleanliness / Hydraulic oil

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At all handling of hydraulic components high cleanliness must be held.

- \* At demounting of hydraulic system, the working areas must be well cleaned from dirt in all shapes.
- \* All components must be well cleaned before demounting.
- \* Unless hydraulic system should be mounted right away after demounting, the details must be kept in such a way that they don't expose to unnecessary contamination.
- \* At oil change, be sure that filler tank are well cleaned outside and well cleaned strainer is used while filling up.
- \* Filler cap must be dried of before removing.
- \* Rags and papers made of non fluffing materials must be used when working areas and tools are cleaned.
- \* Paste-up grease must be avoided. If there are needs for lubrication, use hydraulic oil.
- \* At oil change, Zepro original oil or similar must be used:

## Arctic conditions

*ISO VG 22 or VG 32, ISO 11158 HV and DIN 51524 HVLP.*

Castrol Hyspin AWW 32  
BP Energol HFV-LT  
Shell Tellus Arctic  
Texaco Rando Ashless 8401  
Esso Univis HVI 26  
Statoil 131  
OK/Q8 Hindemith LT  
Mobil Aero HF or HFA\*  
Neste Hydraul Super 28

\*Not a HF oil, as described below.

## Tropical conditions

*ISO VG 46 or VG 68, ISO 11158 HM or HV and DIN 51524HLP or HVLP.*

Castrol Hyspin AWH 46 or 68  
BP Bartran SHF-S 46 or HV 68  
Shell Tellus TX 46 or 68  
Texaco Rando HDZ LT46 or HDZ68  
Esso Univis N 46 or 68  
OK/Q8 Handel 46 or 68  
Mobil DTE 10M-serien, 15M or 16M  
Neste Hydraul 46 or 68

\* NOTE! ATF and HF oils should not be used unless permission from Zepro. HF oils can contain additives and these can have negative effect on polyurethane, that most of our cylinder sealing are made of. Also ATF oils can contain additives that affect plastic and rubber materials negatively. The result may be cylinder leakage.

ATF = Automatic Transmission Fluid, red  
HF = High flash point