



BIHOL 32 /46 / 68 HYDRAULIC OIL – HETG

(Specification: ISO15380)

Description

BIHOL Hydraulic Oils are readily biodegradable rapeseed oil based hydraulic lubricants offering an excellent level of lubrication and an improved operating temperature range. Developed to replace the usual mineral oil based hydraulic lubricants to reduce an environmental footprint.

Areas of Application

Designed for the lubrication of hydrostatic and hydrodynamic machine mechanisms, particularly suitable for lubricating of hydraulic quick valves in power plants. Produced at a range of viscosity classes ISO VG 32/46/68.

Characteristic features

Improved thermal oxidation stability | Great friction and wear test results | Exceptional cold exposure properties
Excellent lubrication | Easily biodegradable | Improved anti-rust and anti-corrosion protection | Made from renewable resources | Non-toxic

Typical Characteristic

| PARAMETER | UNIT | TEST METHOD | ISO VG 32 | ISO VG 46 | ISO VG 68 |
|-----------------------------------|--------------------|---------------|-----------|-----------|-----------|
| Density at 15 °C | kg/m ³ | ISO 12185 | 912 | 917 | 920 |
| Kinematic Viscosity at 40°C | mm ² /s | ASTM D445 | 32 | 46 | 68 |
| Pour point | °C | ASTM D97 | -32 | -34 | -35 |
| Flash point, COC | °C | ASTM D92 | >220 | >250 | >250 |
| Biodegradability (within 21 days) | % | CEC-L-33-A-93 | >90 | >90 | >90 |

BIHOL (HETG) 46

| Test method | Test Result |
|---|------------------|
| Ageing behaviour according to Baader (mod. DIN 51554, part 3) 95°C/72 h/ cooper catalayst change in viscosity 40°C (%) | +5 |
| Rotating oxidation test (ATSM-D 2272) life time (min) | 70 |
| Air release properties /50°C (DIN 51581) (min) | 3 |
| Demulsification capacity / 54°C (ASTM-D 1401) oil water emulsion (ml) separation time (min) | 40-40-0 10-25 |
| Copper corrosion (ASTM-D 130) 3h/ 100 °C 24h/ 100°C | 1a 1b |
| FZG test A 8.3. / 90 (visual) (DIN 51534, part 2) Damage load stage | >12 |