

Hydraulic Oil HM ZF 46

Mineral Zinc Free Hydraulic fluid

Hydraulic Oil HM ZF 46 is a high performance zinc-free ashless anti-wear hydraulic oil developed to provide excellent performance in hydraulic systems, power transmission and general machine lubrication operating under moderate to severe conditions.

Product Code: 78850

Hydraulic Oil HM ZF 46 is based on high quality virgin mineral base oil in combination with an unique additive package to ensure the following properties:

- Excellent thermo-oxidative stability.
- Exceptional anti-wear property results in longer pump and component life.
- Superior demulsibility helps in faster separation of water from oil and resists formation of emulsions.
- Advanced ashless additive technology reduces environmental impact in case of accidental spillage
- Special rust & corrosion inhibitors protect multi-metallurgy components even in presence of moisture
- Rapid air release property minimizes chances of pump cavitations leading to trouble free operations
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems.
- Designed for older hydraulic pumps containing silver or silver-plated parts.

Hydraulic Oil HM ZF 46 exceeds the following performance criteria:

DIN 51524 Part 2 HLP AFNOR NFE 48-603 HM Cincinnati P-70 Vickers M-2950-S Vickers I-286-S Denison HF-1

Typical Analysis

| Properties | Unit | Method | Typical Value |
|-------------------------|---------|-------------|---------------|
| | | | |
| ISO VG Class | | | 46 |
| Density @15°C | kg/m³ | ASTM D4052 | 880.3 |
| Kin. Viscosity @40°C | mm²/s | ASTM D7042 | 46.9 |
| Kin. Viscosity @100°C | mm²/s | ASTM D7042 | 6.9 |
| Viscosity Index | | ASTM D2270 | 101 |
| Flash Point COC | °C | ASTM D92 | >201 |
| Pour Point | °C | ASTM D7436 | -27 |
| FZG A/8,3 90°C | min | DIN 51354-2 | 12 |
| Air Release Value @50°C | Minutes | ASTM D3427 | Pass |
| Demulsibility @54°C | Minutes | ASTM D1401 | Pass |

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