

## LUBRAL HF HYDRAULIC OIL ISO 46

### HYDRAULIC OIL

#### DESCRIPTION

Lubricant made with high performance and excellent quality paraffinic base oils, with additives that provide resistance to wear, oxidation, corrosion and foaming. As well as an ISO 16/14/11 cleanliness code, it has high thermal stability and is compatible with most anti-wear hydraulic oils on the market.

#### BENEFITS

- Increases the lifetime of the pumps.
- High demulsibility to work under conditions of contamination with water.
- Excellent protection against wear.
- High viscosity index, which gives it good thermal stability.
- High resistance to oxidation and corrosion.
- Does not damage hydraulic system seals.
- High resistance to sludge formation.
- Good heat dissipation.
- Low volatility.
- Excellent compatibility with metals.

#### APPLICATIONS

It is recommended for hydraulic systems that have servomechanisms or servo valves, hydraulic actuators, presses, plastic injection and molding machines, presses and automatic machines, machine tool transmissions, air compressors that require R&O oils, cranes, lifting systems of forklifts, water pumps and any hydraulic system that requires an anti-wear oil with superior performance characteristics than conventional AW oils.

#### MEETS OR EXCEEDS SPECIFICATIONS FOR:

- Parker Denison HF-0, HF-1, HF-2.
- GM LS-2
- Eaton Brochure 03-401-2010
- E-FDGN-TB002-E
- JCMAS HK P041
- DIN 51524 PART 1,2,3
- U.S. Steel 126
- Bosch Rexroth RE90220
- Fives Cincinnati P-68, P-69 & P-70.
- ISO 11158 HL, HM, HV.
- SWEDISH STANDARD SS 155434:2015
- ZF TE-ML 07H
- ZF TE-ML 21M
- SAE MS1004

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#### CHARACTERISTICS

TESTS	TEST METHOD	TYPICAL VALUE
ISO Viscosity Grade		46
Color	ASTM D1500	1.0
Appearance	Visual	Brilliant
Kinematic Viscosity @40°C, cSt	ASTM D445	46
Kinematic Viscosity @100°C, cSt	ASTM D445	6.9
Viscosity Index	ASTM D2270	105
Flash Point COC °C	ASTM D92	218
Oil-water-emulsion demulsibility, ml / 30min	ASTM D1401	40-40-0
Cleaning Code	ISO 4406	16/14/11

Typical Properties are those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are expected during normal manufacturing and at different mixing locations.

The information in this document is subject to change without notice. Product availability may vary depending on the location. For more information, you can contact us at [venta@lubral.com](mailto:venta@lubral.com)