

Product Data Sheet

Concord HDD 46

Description and Applications

Saheli Concord HDD (Heavy-Duty Detergent type ash-less hydraulic oil) is heavy duty detergent type ash-less anti-wear hydraulic oil specially developed for machine-tool hydraulic systems, mobile hydraulic systems and clutch drives where minor water contamination can be expected. It is formulated with special detergents and dispersants to avoid valve blockage problems caused by contamination of oil with synthetic and/or semi-synthetic water based cutting fluids. It provides superior anti-wear property, thermo-oxidative stability, rust and corrosion protection, foam control and rapid air release properties.

Features and Benefits

- Special detergent and dispersant properties ensure smooth functioning of hydraulic systems by minimizing formation of sticky residues and deposits.
- Excellent water emulsifying ability maintains proper functioning of hydraulic systems even in case of contamination of oil with small amounts of water.
- Superior anti-wear properties help reduce wear of mechanical components.
- High resistance to oxidation and thermal degradation controls the formation of sludge and varnish and improves oil life.
- Superior foam control and rapid air release properties ensure trouble-free operations.
- Effective corrosion inhibitors provide corrosion protection in arduous service conditions.

Applications

- Machine tool hydraulic systems where contamination of oil with water based cutting fluids is likely to occur.
- Mobile hydraulic systems and clutch drives where minor water contamination can be expected.
- Hydraulic systems in industrial and mobile service employing gear, vane and piston pumps where anti-wear hydraulic oils are recommended.

Specifications

- HLPD Classification of hydraulic oils
- Daimler Chrysler DBL 6721

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Test Parameters	Test Method	Typical Results
ISO VG		46
Density @ 15°C gm/cm ³	ASTM D1298	0.874
Viscosity Index	ASTM D2270	100
Viscosity @ 40°C (cSt)	ASTM D 445	45.9
Pour Point °C	ASTM D 97	-18
Flash Point (COC) °C	ASTM D 92	210
Dispersancy Strip Test, mm	DB.LA.4.042	65
Steel Corrosion	DIN 51585	0-B
Copper Corrosion	DIN 51759 – 100 A3	1A
FZG A/8.3/90, Pass stage	DIN 51324 Part II	12
Timken OK Load, lb	ASTM D 2782	65
Turbine Oil Stability Test, hrs	ASTM D 943	3500+