



Product Name: HYDRÖI Hydraulic Oil HLP

ISO Classification: HLP

Viscosity Grades: ISO VG 22, 32, 46, 68, 100, 150

Quality: Mineral

Recommended for: Agriculture hydraulic systems, construction machinery, cement factories, foundries, and electro-plate clutches. It can also be used as functional test oil, inlet oil for aggregates and machinery, textile machinery and machine tools.

Application: Hydraulic systems

Drain Interval: HLP 22,32,46 and 68 Up to 6000hr, HLP 100 : 5000hr, HLP 150 : 4000hr

Product Overview

HYDRÖI Hydraulic Oil HLP is a high-performance anti-wear hydraulic oil formulated from high-quality refined mineral base stocks and advanced additive technology. Its exceptional thermal stability reduces sludge formation, improves cleanliness, and enhances the reliability of hydraulic systems. The oil ensures excellent wear protection, superior corrosion resistance, and extended service life even under demanding conditions.

Application

HYDRÖI Hydraulic Oil HLP is suitable for use in:

- Stationary and mobile hydraulic systems.
- Industrial machinery, construction equipment, agricultural machinery (tractors, excavators), and presses.
- Systems exposed to high loads and requiring excellent anti-wear performance.
- Machines using mixed metal components and elastomeric seals (nitrile, silicone, Viton).
- Lightly loaded gear systems and bearings

Performance Benefits

- **Thermal and Oxidative Stability:** Ensures a cleaner system with extended oil and filter life.
- **Anti-Wear Performance:** Protects hydraulic components, reducing downtime and maintenance costs.
- **Corrosion Protection:** Prevents rust and corrosion even in the presence of water.
- **Demulsibility:** Separates water effectively, maintaining performance in wet conditions.
- **Wide Temperature Range:** Reliable operation in extreme temperatures (-30°C to +244°C).

Performance Specifications:

- Daimler DBL 6721
- MAN N 698
- DIN 51502 classification – HLP ISO 6743/4 – Hydraulic Oils Type HM
- DIN 51524 Part 2 Cincinnati Lamb (Milacron)
- Cincinnati Lamb (Milacron) P 68-69-70
- P 68-69-70 Denison (Parker Hannafin) HF-0
- HF-0 US Steel 126 & 127 Eaton (formerly Vickers)
- Eaton (formerly Vickers) I-286-S & M-2950-S Bosch
- Bosch Rexroth RE90220





Typical Properties

Property	Unit	VG 22	VG 32	VG 46	VG 68	VG 100	VG 150
Density @ 15°C	g/cm ³	0.862	0.875	0.879	0.884	0.890	0.895
Kinematic Viscosity @ 40°C	mm ² /s	22.0	32.0	46.0	68.0	100.0	150.0
Kinematic Viscosity @ 100°C	mm ² /s	4.3	5.4	6.7	8.5	11.5	14.8
Viscosity Index (VI)	-	102	102	102	102	100	98
Pour Point	°C	-30	-30	-27	-27	-21	-15
Flash Point	°C	200	220	232	236	248	276
Corrosion (Copper, 3h, 100°C)	Rating	1B	1B	1B	1B	1B	1B
FZG Gear Test (A/8.3/90)	Failure Stage	12	12	12	12	12	12
Foam (Seq I, 24°C)	ml	20/0	20/0	20/0	20/0	20/0	20/0

Health, Safety, and Environmental Guidelines:

- **Handling:** Avoid prolonged skin contact; wash immediately with soap and water if contact occurs.
- **Disposal:** Dispose of used oil responsibly at authorized collection points.
- **Storage:** Keep tightly closed and store in a dry, well-ventilated area between **0°C and 40°C**.

