

INDUSTRIAL HYDRAULIC OIL
Premium Mineral Technology

HYDRA HLP

PRODUCT DESCRIPTION:

HYDRA HLP Series are based on highly refined mineral oil and enhanced with advanced additive package. It's excellent oxidation resistance delivers good performance at higher temperatures and extended operating intervals. It has a high load carrying capacity and provides good protection against corrosion, foaming, and sludge building. Good anti-wear performance prevents wear of internal components and reduces downtime.

Applications:

- For mobile and static hydraulic applications of industrial and other equipment. Hydraulic cranes and lifts, loaders, reachtrucks, forklifts, excavators, dumpers, loading ramps, and tailboards etc.

Meets and Exceeds Performance Levels:

- DIN 51524-2 HLP
- ASTM D6158-05 HM
- Eaton (Vickers) M-2950 S, I-286 S
- ISO 11158 HM
- Cincinnati P-68 (ISO 32)
- Cincinnati P-70 (ISO 46)
- Cincinnati P-69 (ISO 68)
- Denison HF-0, HF-1, HF-2
- AFNOR NF-E 48-603

Features:

- Low pour point and good flow characteristics
- Good viscosity-temperature properties
- Excellent oxidation stability
- Protection against corrosion, foaming, and sludge building

Typical Properties:

ISO VG,	10	22	32	46	68	100	150
cSt @ 100°C	2.7	4.5	5.3	6.7	8.5	10.9	14.3
cSt @ 40°C	10	21	31.5	44.2	71.2	95.3	142.8
Viscosity Index, ASTM D2270	98	98	98	98	98	98	98
Pour Point, °C, ASTM D97	-30	-30	-27	-27	-21	-21	-15
Flash Point, COC, ASTM D92	174	200	220	232	236	248	276
Copper strip corrosion, 3 hrs @ 100°C, ASTM D130	1B	1B	1B	1B	1B	1B	1B
Rust protection Proc B, ASTM D665	PASS	PASS	PASS	PASS	PASS	PASS	PASS
****FZG Failure Load Stage, ISO 14635-1(mod)			12	12	12	12	12