

QATOL REDLINE HYDRO HYDRAULIC FLUID (HLP)

Industrial extra heavy duty hydraulic fluid for long life, excellent performance and protection

PRODUCT DESCRIPTION:

QATOL HYDRAULIC FLUIDS ranges are performance anti-wear hydraulic oils developed for high pressure hydraulic systems operating under moderate to severe conditions in mobile and industrial service. QATOL HYDRAULIC FLUIDS are formulated with quality base oils and carefully selected performance additives to provide excellent protection against oxidation degradation, rust & corrosion and wear.

QATOL HYDRAULIC FLUIDS ranges can be used in hydraulic systems operating under moderate to severe conditions in mobile and industrial service and in older hydraulic systems where leakage is a problem and a cost-effective hydraulic oil providing all-round protection is required, mobile hydraulic fluid power transmission systems and general machine lubrication

APPLICATIONS:

- QATOL HYDRAULIC FLUIDS ranges are recommended for high pressure hydraulic power systems and a wide variety of circulation systems of industrial and automotive equipment. They are suitable for precision hydraulic systems requiring very high control of fluid viscosity like high performance electrohydraulic or numerically controlled systems particularly where close clearance servo-valves are used. They are also used in general manufacturing, power and metal equipment operating at high speeds, loads and temperatures like presses, injection molding, machine tools etc. These oils are also recommended for the lubrication of rotors, bearings, gears in rotary compressors like screw and vane type.
- For mobile and static hydraulic applications of industrial and other equipment.
- Hydraulic cranes and lifts, loaders, reach trucks, forklifts, excavators, dumpers, loading ramps, and tailboards.
- Sometimes recommended for: hydraulic systems of metalworking machines, or circulation systems of industrial machinery.

FEATURES AND BENEFITS:

- Outstanding Oxidation Stability – outstanding resistance to the effects of oxidizing agents. Resists sludge and deposit formation. Minimizes filter choking. Ensures longer operating life, less maintenance and reduction in operating cost.
- Superior Hydrolytic Stability – resists water absorption and the chemical decomposition of the oil in the presence of water. Protects from acid corrosion, rusting and allows longer oil life.
- Excellent Wear Protection – excellent protection to the pump, valve and other system components. Operates on a wide range of load conditions – moderate to severe.
- Good Thermal Stability – provides good resistance to thermal break down and capability to work under varied ambient and operating temperatures to offer optimum life and performance.
- Anti-foam – allows precision control, high pump pressures and efficient power transfer.
- Fast Air Release – ensures release of entrapped air from oil to offer superior performance of the control mechanism in the system.
- Excellent Demulsibility – the rate of water separation from oil is very high. Increases system efficiency and reliability.
- Increased System Reliability – by resisting thermal and chemical break down of the oil these oils minimize the risk of formation of the harmful sludge and deposit.



SPECIFICATIONS:

- DIN 51524-2: HLP ISO 6743-4: HM
- Denison HF-1, HF-2, HF-0
- Vickers I 286-S, M 2950-S Cincinnati Milacron P68, P69, P70
- US Steel 126, 127
- AFNOR NFE 48603
- AFNOR NFE 48690 (dry) and NFE 48691 (wet)

KEY PROPERTIES

Properties	Units	Values								Test Methods
ISO Grade		22	32	46	68	100	150	220	320	-
Viscosity@ 40°C	mm ² /s	22	32	46.9	68	99.5	149	220	320	ASTM D-445
@ 100°C	mm ² /s	4.4	5.4	6.9	8.8	11.1	14.6	19	24	ASTM D-445
Viscosity Index	-	109	102	102	99	96	96	97	95	ASTM D-2270
Density @ 35°C	Kg/m ³	855	864	868	873	877	881	885	889	ASTM D-4052
Neutralization no. mg KOH/g		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ASTM D-664
Flash Point	°C	205	214	222	232	240	250	254	260	ASTM D-92
Pour Point	°C	-24	-24	-24	-24	-18	-15	-12	-12	ASTM D-97

AVAILABLE PACKAGES: 208L, 25L, 20L,