

K1 Lube Hydraulic HVL

Premium Long-life Antiwear Hydraulic Fluid for Excavator

ISO VG 46



DESCRIPTION

K1 Lube Hydro HVL is a premium quality, shear stable, multi-viscosity, anti-wear hydraulic fluid, designed for use in hydraulic systems subjected to wide variations in ambient and operating temperatures. It is specifically designed to meet the long-life hydraulic oil requirement of construction equipment. (Excavator : 5000 hrs)

APPLICATIONS

- Industrial hydraulic equipment subject to wide variation in temperatures
- Hydraulic Systems in mobile, construction and agricultural equipment
- Industrial Hydraulic systems with vane, gear or piston pumps
- Enclosed gears operating under moderate load conditions
- Industrial circulating systems where a rust and oxidation inhibitor or antiwear oil is required

PERFORMANCE STANDARDS

K1 Lube Hydro HVL meets performance standards as below.

- Denison Hydraulics HF-0
- Vickers I-286-S [industrial applications], M-2950-S [mobile applications]
- Bosch Rexroth RE 90 220
- ISO Standard 6743 Part 4, Type HV
- GB 11118.1-2011, L-HV
- DIN 51524 Part 3, HVLP

CUSTOMER BENEFITS

Wide temperature application

Shear stable, multi-viscosity characteristics reduce the risk of breakdown in high pressure & high load hydraulic systems which operate over a wide temperature range.

Longer equipment life

Special anti-wear additive package reduces wear by protecting surfaces when applied load causes breakdown of the lubricating film.

Reduced downtime

Effective rust and oxidation inhibitor system prevents

- the production of abrasive particles from rust & deposits
- varnishes and sludges from oil breakdown which can damage equipment surfaces & seals
- filters being blocked prematurely

Trouble-free operation

Good hydrolytic stability and water separation characteristics provide excellent filterability in the presence of water contamination. Good anti-foam and air release properties ensure smooth operation and system efficiency.

Extended oil service life

High oxidation stability resists oil thickening and deposit formation in service, eliminating the need for unscheduled change of hydraulic fluid.

KEY PROPERTIES

ISO VG	46
Specific Gravity, 15 °C	0.852
Kinematic Viscosity, mm ² /s @ 40°C	46.5
Kinematic Viscosity, mm ² /s @ 100°C	8.0
Viscosity Index	147
Pour Point °C	-45
Flash Point °C	243
Copper Corrosion, 100°C/3hr	1a
Rust Preventive, Sea Water	Pass
Demulsibility, min	15
Package (Liters)	20