

HYDRA HVI

HIGH VISCOSITY HYDRAULIC OIL

Description

Hydra HVI oils are premium quality anti-wear hydraulic oils specially developed for applications subjected to a wide range of temperature or where small viscosity change with fluctuating temperature is required. Hydra HVI is formulated with high quality paraffinic base oils, a highly shear stable polymer and an advanced additive system to meet the stringent requirements of modern hydraulic systems.

Hydra HVI oils are suited for hydraulic and power transmission systems subjected to a wide range of ambient and operating temperatures, critical hydraulic systems such as high accuracy numerically controlled machine tools and those employing close clearance servo valves, hydraulic systems of excavators, cranes and hydrostatic drives subjected to most severe outdoor operating conditions and hydraulic systems operating under high pressures and requiring high degree of load carrying capability and Anti-Wear protection.

Benefits

Hydra HVI oils have exceptional anti-wear properties resulting in longer pump and component life, the high viscosity index assures equipment protection at cold start-up temperatures and protects system components at high operating temperatures. Excellent shear stability minimises viscosity loss over time and exhibits "stay-in-grade" performance under high shear conditions. Excellent thermo-oxidative stability controls the formation of sludge and varnish and improves oil life and superior demulsibility helps in faster separation of water from oil and resists formation of emulsions. Rust & corrosion inhibitors protect multi-metallurgy components even in the presence of moisture and the rapid air release property minimises chances of pump cavitation leading to trouble free operations. Hydra HVI oils are compatible with metals and sealing materials commonly used in hydraulic systems.

Typical Properties

ISO VG		15	32	46	68	100
Code		LUB006010	LUB006011	LUB006012	LUB006013	LUB006015
Density 15 °C	kg/m3	853	862	860	870	880
Viscosity 40 °C	cSt	15	32	46	68	100
Viscosity 100 °C	cSt	3.9	6.3	8.1	11.0	14.5
Viscosity Index		150	150	150	150	150
Pour Point	°C	-42	-36	-33	-30	-27
Flash Point C.O.C	°C	180	210	210	215	230
Operating temperature	°C	-35/150	-30/150	-30/150	-25/150	-25/150



Performance levels

- ISO 11158 HV
- Denison HF-0, HF-1, HF-2 (For ISO VG 32, 46 and 68 respectively)
- DIN 51524/3 HVLP
- Cincinnati Lamb, P-68, P-69 and P-70 (For ISO VG 32, 46 and 68 respectively)
- AFNOR NFE 48-603 HV
- Eaton (Vickers) M-2950-S, I-286-S
- Poclain & Hitachi
- Sauer Danfoss 520L0463
- Bosch Rexroth 07 075