

LORENT HVI

High viscosity index hydraulic oil

Description

LORENT HVI is made of high quality mineral base oil group II, specially developed for uses in hydraulic systems. **LORENT HVI** is formulated with anti-foam, anti-oxidant, anti-wear, rust inhibitor, pour point depressant, viscosity index improver, and extreme pressure.

Applications

- ▶ **LORENT HVI** is also recommended for all kind of hydraulic systems operating under high pressure and high temperature (limit <100 °C).
- ▶ It suits the hydraulic fluid, electrohydraulic servo controls, valve controls, shock absorbers, marine equipment, mining equipment, and other hydraulic equipment.
- ▶ For the control and power transmission systems of most types of machinery design or heavy-duty operating conditions that require oils with an extremely high viscosity index.

Specification Meets

- ▶ Parker (formerly Denison) HF-0, HF-1, HF-2 (HM, HV)
- ▶ Eaton M-2950-S and I-286-S3

- ▶ MAG P68, P69, P70 (HM, HV)
- ▶ DIN 51524-2 (HM); DIN 51524-3 (HV)
- ▶ ISO 11158 (HM, HV)
- ▶ ASTM D6158 (HM, HV)
- ▶ SAE MS 1004 (HM, HV)
- ▶ Bosch Rexroth RE 90220
- ▶ JCMAS P041 HK Hydraulic Specification
- ▶ ANSI/AGMA 9005-E02-RO
- ▶ GM LS-2
- ▶ AIST 126, 127

Advantages

- ▶ Excellent oxidation stability
- ▶ Capable to extend the oil drain interval
- ▶ Good sludge and particulate control
- ▶ Improved filterability and consequently less downtime
- ▶ Improved protection of critical components with tight tolerances
- ▶ Superior wear protection for maximum equipment life
- ▶ Greater energy saving potential
- ▶ Excellent hydrolytic stability for improved protection and extended life of yellow metal part of the equipment

Typical Data of LORENT HVI

Characteristics	Unit	LORENT HVI			Test Method
		46	68	100	
Appearance		B & C	B & C	B & C	Visual
Color ASTM		L 0.5	L 0.5	L 0.5	ASTM D 1500
Density @ 15 °C	kg/L	0.8616	0.8685	0.8756	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	46.14	68.28	100.15	ASTM D 445
Kinematic Viscosity @ 100 °C		8.50	11.31	15.17	
Viscosity Index		164	159	158	ASTM D 2270
Flash Point (COC)	°C	216	224	242	ASTM D 92
Pour Point		-33	-42	-30	ASTM D 97
Sequence I : 24 °C	mL	0/0	0/0	0/0	ASTM D 892
Sequence II : 93.5 °C		10/0	10/0	0/0	
Sequence III : 24 °C after 93.5 °C		0/0	0/0	0/0	
Demulsibility @ 54.0 °C/82.0 °C	(min) mL/mL/mL	(10') 40/40/0	(10') 40/40/0	(10') 40/40/0	ASTM D 1401

* the typical characteristic mentioned represent mean values