

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:

- ▶ ISO-L-HV
- ▶ DIN 51 524 teil 3 HVLP

- ▶ AFNOR NF E 48603 HV
- ▶ DENISON HF 0
- ▶ VICKERS M-2950
- ▶ CINCINNATI P-68, P-69 and P-70
- ▶ CETOP RP 91 H HV category

Advantages

- ▶ The oils have good antiwear and extreme pressure properties, thus ensure efficiency and long life of all moving parts of hydraulic system or heavy-duty service and protect against destructive wear under overload conditions
- ▶ Superior thermal stability avoids the formation of sludge even at high temperature
- ▶ Extends the life of hydraulic pump and motor parts in circuits
- ▶ Excellent shear stability and oxidation stability ensure a long service life of the fluid
- ▶ Good anti-foam, demulsibility, and air release properties
- ▶ Excellent filterability properties even in the presence of water
- ▶ Excellent water-separation characteristics assure fast removal of water from leaks and condensation
- ▶ Compatible with most mineral hydraulic oils

Typical Data of LORENT HVI

Characteristics	Unit	LORENT HVI			Test Method
		46	68	100	
Appearance		B & C	B & C	B & C	ASTM D 445
Color ASTM		L 0.5	L 0.5	L 0.5	
Density @ 15 °C	kg/L	0.8616	0.8682	0.8756	ASTM D 2270
Kinematic Viscosity @ 40 °C	cSt	46.14	70.56	100.15	ASTM D 445
Kinematic Viscosity @ 100 °C		8.50	11.58	15.17	
Viscosity Index		164	159	158	ASTM D 2270
Flash Point (COC)	°C	216	242	242	ASTM D 92
Pour Point		-33	-33	-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	0/0	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