

LORENT ZNF

High viscosity index hydraulic oil

Description

LORENT ZNF is an ashless antiwear hydraulic with high quality mineral base oil group II specially developed for use in hydraulic systems that require fluids which possess an extremely high viscosity index and a very low pour point for correct operation (ISO-L-HV classification). **LORENT ZNF** is formulated with viscosity index improver, pour point depressant, extreme pressure, anti-foam, anti-oxidant, anti-wear and rust inhibitor.

Applications

- ▶ **LORENT ZNF** is recommended for all kind of hydraulic systems operating under high pressure and high temperature (limit <100 °C).
- ▶ Suitable for hydraulic fluid and 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 P3 HVLP
- ▶ AFNOR NF E 48603 HV
- ▶ DENISON HF 0, HF 1, HF 2
- ▶ EATON VICKERS 694 (M-2950-S, M-2952-S, I-286-S)
- ▶ CINCINNATI MILACRON P-69 and P-70
- ▶ CETOP RP 91 H (HM, HV) category

Advantages

- ▶ 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 speedy removal of water from leaks and condensation
- ▶ Compatible with most mineral hydraulic oils

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Typical Data of LORENT ZNF

Characteristics	Unit	LORENT ZNF		Test Method
		46	68	
Appearance		B & C	B & C	Visual
Color ASTM		L 0.5	L 0.5	ASTM D 1500
Density @ 15 °C	kg/L	0.8616	0.8682	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	46.14	70.56	ASTM D 445
Kinematic Viscosity @ 100 °C		8.50	11.58	
Viscosity Index		164	159	ASTM D 2270
Flash Point (COC)	°C	216	242	ASTM D 92
Pour Point		-33	-33	ASTM D 97
Zn, content	ppm	<10	<10	
Sequence I : 24 °C	mL	0/0	0/0	ASTM D 892
Sequence II : 93.5 °C		10/0	0/0	
Sequence III : 24 °C after 93.5 °C		0/0	0/0	
Demulsibility @ 54.0 °C/82.0 °C	(min) mL/mL/mL	(10') 40/40/0	(10') 40/40/0	ASTM D 1401

* the typical characteristic mentioned represent mean values