

## LORENT ZNF

Premium quality zinc free hydraulic oils

### Description

**LORENT ZNF** is an ashless (non zinc) antiwear hydraulic with high quality mineral base oil group II specially developed for use in hydraulic cleanliness oil systems that require fluids which possess an extremely high viscosity index and a very low pour point for correct operation (ISO-L-HM classification). **LORENT ZNF** is formulated with complete balance additives that provide excellent performance.

### Applications

- ▶ **LORENT ZNF** is recommended for all kind of hydraulic systems operating under high pressure and high temperature.
- ▶ 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:

- ▶ DENISON HF-0, HF-1, HF-2 (HM)
- ▶ EATON M-2950-S
- ▶ MAG P68, P69, P70
- ▶ DIN 51524 Part II (HM)
- ▶ ISO 11158 (HM)
- ▶ ASTM D6158
- ▶ SAE MS 1004
- ▶ BOSCH REXROTH RE 90220
- ▶ GM LS-2
- ▶ CONESTOGA Pump Test ISO 20763

### 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
- ▶ Excellent hydrolytic stability for improved protection and extended life of yellow metal part of the equipment
- ▶ The addition anti seal swelling agent give excellent seal compatibility properties and prolong seal lifetime

# LORENT ZNF

Premium quality zinc free hydraulic oils

## Typical Data of LORENT ZNF

Characteristics	Unit	LORENT ZNF			Test Method
		32	46	68	
Color ASTM		L 0.5	L 0.5	L 0.5	ASTM D 1500
Kinematic Viscosity @ 40 °C	cSt	32.69	46.4	68.3	ASTM D 445
Kinematic Viscosity @ 100 °C		5.93	7.49	9.82	
Viscosity Index		126	125	125	ASTM D 2270
Flash Point (COC)	°C	222	228	242	ASTM D 92
Pour Point		-30	-27	-27	ASTM D 97
Water Separability (40-40-0)	mL	5 min	10 min	10 min	ASTM D 1401
Copper Corrosion, 3 hours @ 100 °C		1A	1A	1A	ASTM D 130
Sequence I : 24 °C	mL	0/0	0/0	0/0	ASTM D 892
Sequence II : 93.5 °C		10/0	10/0	10/0	
Sequence III : 24 °C		0/0	0/0	0/0	

\* the typical characteristic mentioned represent mean values