



## **HLP- Range Anti-wear hydraulic oil**

The MUXXOL HLP hydraulic oil range are based upon highly refined mineral oil enhanced with a stabilized Zinc additive system.

### **PRODUCT DESCRIPTION**

Muxxol HLP has been specially formulated to provide good anti-wear and thermal stability performance using the very latest additive technology. The careful blend of additives with a high quality base stock ensures that Muxxol HLP has excellent hydrolytic and oxidative stability while exhibiting a minimal tendency to produce sludge and deposits. In addition, Muxxol HLP provides corrosion protection to ferrous and yellow metal components found within a hydraulic system.

### **APPLICATION**

This range is designed for use in industrial hydraulic systems which require anti-wear protection. It is also suitable for other duties in which lubricants of high oxidation stability and lubrication performance are required, such as lightly loaded gears, variable speed units and bearings. Muxxol HLP is classified as follows: DIN 51502 classification – HLP ISO 6743/4

Muxxol HLP grades meet the requirements (for appropriate viscosity grade) of: DIN 51524 Part 2 Cincinnati Lamb (Milacron) P 68-69-70 Denison (Parker Hannafin) HF-0 US Steel 126 & 127 Eaton (formerly Vickers) I-286-S & M-2950-S Bosch Rexroth RE90220.

### **ADVANTAGES**

- Good thermal and oxidative stability leads to longer operating life, reduction in lubricant costs and minimizes deposit formation giving a cleaner system.
- Excellent anti-wear performance gives wear protection and reduces downtime from unscheduled maintenance.
- Good filterability characteristics (including in the presence of water), enables cost savings to be made from increased filter life and reduced maintenance.
- Excellent water separation and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability.

## Typical Characteristics

	Method	Units	HLP- 32	HLP- 46	HLP- 68	HLP- 100
ISO Viscosity Grade	-	-	32	46	68	100
Density @ 15° C	ASTM D1298	g/ml	0.876	0.876	0.881	0.885
appearance	Visual	-	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright
Viscosity, Kinematic @ 40° C	ASTM D445	mm <sup>2</sup> /s	32	46	68	100
Viscosity, Kinematic @ 100° C	ASTM D445	mm <sup>2</sup> /s	5.44	6.82	8.77	12.01
Viscosity Index	ASTM 2270	-	>118	>118	>115	>112
Pour Point	ASTM D5985	°C	-27	-24	-21	-18

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