**Beacon Hydraulic Anti-Wear XLZ Oil**

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| Product Application: |

Beacon Lubricants Anti-Wear XLZ Oils are premium performance technical grade extended life, high detergent anti-wear hydraulic oils designed for the most rigorous hydraulic applications of today’s exacting equipment. They were developed to meet the stringent requirements of the most severe applications using high pressure; high output pumps as well as excelling in the critical requirements of close tolerance servo-valves and the ultra-high accuracy of computer numerical controlled (CNC) machine tools.

Anti-Wear XLZ Oils are formulated with premium hydro-treated stable base stocks and the latest generation in additive systems that help provide protection against oxidative mechanical and thermal breakdowns that contribute to the formation of varnish.

Beacon Lubricants Hydraulic Anti-Wear XLZ Oils are characterized by outstanding rust protection, low deposit formation, superior demulisbility, low air entrainment, excellent oxidation resistance, low pour points and good anti-foam properties while maintaining maximum hydraulic efficiency and critical component protection from the entire climate spectrum.

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| Performace Credentials:  |

Parker Denison HF-0, HF-1, HF-2

Eaton Brochure 03-401-2010

MAGIAS P-68, P-69, P-70

US Steel 127 and 136

General Motors LH-03-2, LH-04-2, LH-06-2

DIN 51524 Parts 2 and 3

ISO 11158

Vickers M-2952-S

Racine Vane Pumps- Variable Volume

Sunstrand Hydrostatics

ASTM D6158-05

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| Features and Advantages:  |

\*Superior low flow temperature capabilities while maintaining viscosity at high temperatures

\*Excellent oxidation life, helping to extend life of oil and prevent varnish formation

\*High level of thermal stability, which helps minimize the formation of varnish

\*Excellent demulsibility, outstanding anti-wear system to protect system components

\*High level of rust and corrosion protection, extending component life, excellent filterability

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| Typical Characteristics:  |

ISO Grade **32 46 68 100**

Gravity, Degrees API 30.1 28.5 29 28

Viscosity Index (Min.) 131 144 143 129

Viscosity

 cSt @ 100 °C 5.4 6.7 8.2 11

 cSt @ 40 °C 32 46 67 98

Flash Point, °C ASTM D 92 212 226 234 242

Pour Point, °C ASTM D 97 -30 -25 -25 -15

Oxidation ASTM D943 10000 10000 10000 10000

Copper Strip Corrosion, ASTM D 130 1A 1A 1A 1A

**Product Bench Test Method Results**

Copper Corrosion D 130 1B

Steel Corrosion D 665 A, B Pass

Demulsibility D 1401 40-40-0 (15)

Foam Sequence III D 892 20/0

Thermal Stability D 2070

 Appearance of Copper Rod 6

 Appearance of Steel Rod 2

 Sludge, mg./100 ml. 2.8

Hydrolytic Stability D 2619

 Copper wt. loss, mg./cm2 0.034

 TAN, Water layer 3.7

Filtration Denison

 Time to filter dry, sec 165

 Time to filter, 2% water, sec. 244

Filtration AFNOR

 Dry, Fl 1.08

 Wet, Fl 1.28

Wear, Four Ball, scar, mm. D 4172

 Conditions – 40 kg., 1800 rpm, 130 °F, 1hr 0.40

Oxidation, hr. D 943 7600

Oxidation, 1000 hr D 4310

 Cu, mg. 10.7

 Fe, mg. <1

 Total sludge, mg. 24.6

EP, Four Ball D 2783

 LWI 33.95

 Weld Load, kg. 126

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