**Hydraulic Anti-Wear XL Oils**

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| Product Application:  |

Beacon Hydraulic Anti-Wear XL Oils are premium, heavy duty, high detergent, ashless “zinc free” fluids developed to meet the requirements of high output hydraulic systems. They are designed for use in high pressure or high-speed vane and gear-type hydraulic pumps, rotary vane-type compressors, machine tools and circulating systems.

They were developed to exceed the exacting specifications of modern hydraulic systems utilizing high pressure, high output pumps while excelling at providing the best lubrication and operating medium for the precise requirements of close tolerance servo-valves and the ultra-precision of computer numerical controlled or “cnc” machines.

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| Package Size:  |

Bulk, Drums, Pails

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| Meets or Exceeds the following Specifications:  |

Hagglunds-Denison HF-0, HF-1, HF-2

Vickers M-2952-S, 35VQ-25

Cincinnati Machine P-68, P-69, P-70

US Steel 127, 128

Racine Vane Pumps- Variable Volume

U.S. Fish and Wildlife Aquatic Toxicity LC-50

DIN 51524-2 2006-09

ISO L-HM, (ISO 11158, 1997)

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| Features and Advantages:  |

\*Environmentally Responsible

\*Ability to maintain proper viscosity at high temperatures

\*Excellent oxidation and rust protection

\*Excellent anti-foaming properties

\*Applications where cross-contamination of hydraulic fluids and coolants can occur

\*Thin oil-film corrosion protection

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| Typical Characteristics: |

**ISO GRADE 22 32 46 56 68 100**

Gravity, Degrees API 30.2 30.1 28.5 28.5 29 28

Viscosity Index (Min.) 165 164 163 162 160 138

Viscosity

 cSt @ 100 °C 5.1 5.4 6.7 7.5 8.2 11

 cSt @ 40 °C 21 32 46 56 67 98

Flash Point, COC, °F 400 430 435 435 450 450

Pour Point, °F -35 -30 -20 -20 -20 -10

Oxidation Astm D943 9000 >9000 9000 9000 9000 9000

**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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