beacon lubricants INC.
P.O. Box 754,
Edinboro, PA 16412-0754
sales@beaconlubricants.com
toll free: (877) 734-7334
phone: (814) 734-7535
fax: (814) 734-3460
technical data sheet

Beacon Hydraulic Anti-Wear XLZ Oil

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.

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

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

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

Visit us at – www.beaconlubricants.com