



Hydraulic Anti-Wear XL Oils

Product Application:

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.

Package Size:

Bulk, Drums, Pails

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)

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

Typical Characteristics:

ISO GRADE	32	46	68	100
Gravity, Degrees API	30.1	28.5	29	28
Viscosity Index (Min.)	105	103	101	97
Viscosity				
cSt @ 100 °C	5.4	6.7	8.2	11
cSt @ 40 °C	32	46	67	98
Flash Point, COC, °F	430	435	450	450
Pour Point, °F	-30	-20	-20	-10
Oxidation Astm D943	>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./cm ²		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, FI		1.08
Wet, FI		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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