

THE THERMAL-LUBE

PARTIALLY-SYNTHETIC BIO-HYDRAULIC FLUID

XL9538

November 2024

XL9538 is a partially synthetic readily biodegradable hydraulic oil formulated with anti-wear (AW) / extreme pressure (EP) additives together with rust and oxidation inhibitors to protect hydraulic system mechanisms.

XL9538 is recommended for hydraulic systems in moderate climates where the ambient temperatures will not drop below -40°C.

XL9538 does not contain any mineral-based products, nor any additives that are dangerous to the health of the operators.

SPECIFICATIONS:

XL9538 meets the following specifications:

- Cincinnati Machine P-68, P-69, P-70
- U.S. Steel 127, 136 / German Steel SEB 181222
- DIN 51524 Parts 1 and 2, Type HLP
- DIN 51506, VDL
- GE Turbine Specifications [GEK 32568E (ISO 32) & GEK 28143A]
- Denison HF-0, HF-1, HF-2
- ISO 11158:1997, Family H, Type HM
- Bosch Rexroth RE 90220, Type HLP
- Eaton Vickers, I-286-S, M-2950, 35VQ25A

ADVANTAGES:

- Biodegradable
- Non-toxic
- Higher security than mineral based products
- Protection against Rust and Corrosion
- Compatible with seals and elastomers

APPLICATIONS:

XL9538 is recommended for vane, piston, and gear pumps, mobile or stationary operating with either low or high pressures.

TYPICAL SPECIFICATIONS		
Product Code: XL9538	/032	/046
ISO Grade	32	46
Viscosity (cSt @ 40°C) (ASTM D445)	35	45
(cSt @ 100°C) (ASTM D445)	8.4	8.9
Viscosity Index (ASTM D2270)	216	165
Flash Point (°C) (ASTM D92)	330	
Pour Point (°C) (ASTM D97)	-42	-40
Density (g/ml) (ASTM D1298)	0.915	0.918
Biodegradability 28 Days (OECD 301B)	Readily	
Appearance	Clear Liquid	
Rust Prevention (ASTM D665)	Pass	
Minimum Lubricant Life (Hours) (ASTM D943 TOST)	6,000	



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