

THE THERMAL-LUBE

BIO-HYDRAULIC FLUID FOR WET/ MARINE APPLICATIONS

XL9539

November 2024

XL9539 is a partially synthetic biodegradable hydraulic oil specially formulated with water displacement additives together with rust and oxidation inhibitors to protect hydraulic system mechanisms in high moisture and marine environments.

XL9539 is recommended for hydraulic systems in moderate climates where the ambient temperatures will not drop below -40°C.

XL9539 does not contain any mineral-based ingredients, nor any additives that are dangerous to the health of the operators.

SPECIFICATIONS:

XL9539 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 (OECD 301B >80% 'Inherently Biodegradable').
- Non-toxic to aquatic and plant life.
- Higher security than mineral based products
- Water Displacing
- Protection against Rust and Corrosion
- Compatible with seals and elastomers designed for biodegradable or ester-based oils.

APPLICATIONS:

XL9539 is recommended for vane, piston, and gear pumps, mobile or stationary operating with either low or high pressures in wet or marine environments.

TYPICAL SPECIFICATIONS		
Product Code: XL9539	/032	/046
ISO Grade	32	46
Viscosity (cSt @ 40°C) (ASTM D445) cSt @ 100°C) (ASTM D445)	35 8.4	45 8.9
Viscosity Index (ASTM D2270)	216	165
Flash Point (°C) (ASTM D92)	330	
Pour Point (°C) (ASTM D97)	-45	-42
Density (g/ml) (ASTM D1298)	0.915	0.918
Appearance	Clear Liquid	
Rust Prevention (ASTM D665)	Pass	



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