

## PRODUCT INFORMATION



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# L-609-AL ANTI-LEAK HYDRAULIC OIL

## SAE 10w 20w 30w

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### DESCRIPTION

**L-609-AL Hydraulic Oils** are premium anti-wear hydraulic oils specifically designed for use in areas sensitive to leaks and/or incidental discharge to the environment.

**L-609-AL Hydraulic Oils** are made from severely hydro-treated base stocks and an ashless (zinc-free) additive system that provides superior oxidation stability, water demulsibility, foam suppression and protection against wear, rust and corrosion.

**L-609-AL Hydraulic Oils** meet the performance requirements of traditional anti-wear hydraulic oils, particularly in severe, high output applications such as axial piston pumps.

**L-609-AL Hydraulic Oils** have a dielectric strength of 35k V. The ASTM D877 test is the method for determining dielectric strength.

**L-609-AL Hydraulic Oils** has a dielectric strength of 35kV on this test, thus making it non-conductive.

*Formulated for heavy duty applications where excessive leaks are a serious problem.*

### FEATURES/BENEFITS

- Excellent oxidation stability means long service life and cost savings
- Outperforms other fluids in high efficiency (high temperature, high output) applications where severe stress conditions are placed on the hydraulic fluid
- Excellent antiwear properties which provide the best in wear protection
- Inherently more environmentally friendly thus minimizing any long term environmental concerns. Suitable for conventional recycling programs unlike vegetable hydraulic oils
- Aromatic-free and have passed the U.S. Coast Guard static sheen test requirements
- Exceeds the U.S. EPA LC-50 test requirements for mysidopsis bahia shrimp, rainbow trout and fathead minnow.

**Passes the Static Sheen Test (40CFR 435 Subpart A Appendix 1)**

### APPLICATION

**L-609-AL Hydraulic Oils** designed to use in mobile and stationary hydraulic vane, piston, and gear type pumps that are situated in environmentally sensitive areas. They are particularly suited to high performance industrial applications which utilize axial piston pumps and pressures may exceed 10,000 psi.

***Forklifts/Draglines/Cranes/Dump Trucks/Balers/Hydraulic presses/Hydraulic Elevators/Cherry pickers/Hydra-lifts/ Hoist/Winches/Hydraulic jacks/Injection molding presses/Tractors and construction equipment.***

**L-609-AL Hydraulic Oils** meet the requirements of\*:

- Denison HF-0, HF-2
- Cincinnati Machine P 68 (ISO 32), P 69 (ISO 68)
- Vickers for use in M2950-S (mobile) and I-286-S 35VQ25 pump test

## **SPECIFICATIONS**

<b>SAE GRADE</b>	<b>10</b>	<b>20</b>	<b>30</b>
API Gravity, ASTM D 4052	32.1	31.1	30.6
Pounds per gallon	7.1	7.3	7.4
Flash Point, ASTM D92, °F	385	410	412
Pour Point, ASTM D97, °F	-26	-26	-5
Viscosity, ASTM D445			
cSt at 40°C	32	68	100
cSt at 100°C	6	8.9	11.9
Water Separation, ASTM D 1401, minutes			
at 130°F	15	15	-
at 180°F	-	-	-
Viscosity Index, ASTM D2270	106	106	106
Four-Ball Wear, ASTM D 2266			
Scar, mm at 20 Kg	.30	.30	.30
Scar, mm at 40 Kg	.37	.37	.37
Oxidation Stability, ASTM D 943, hrs to 2.0 AN	15000+	15000+	15000+
FZG LOAD STAGE PASS DIN 51354	12	12	12