

DESCRIPTION

Longlife Elite AW Synthetic Hydraulic Oils are premium, fully synthetic anti-wear (AW) hydraulic fluids engineered with high-performance synthetic base stocks and an advanced additive package incorporating zinc-free or ashless anti-wear agents, corrosion inhibitors, anti-foam compounds, and highly effective antioxidant stabilizers. These formulations provide superior protection in high-pressure hydraulic circuits, including vane, piston, and gear pumps, as well as numerically controlled (NC/CNC) machine tool systems operating under severe conditions.

APPLICATIONS

Longlife Elite AW Hydraulic Oils are designed for use in:

- High-pressure piston, vane, and gear pumps
- Industrial hydraulic systems and associated components
- Mobile equipment, including lifts, cranes, excavators, and mining implements
- Industrial gear and bearing sets requiring rust- and oxidation-inhibited fluids

SPECIFICATIONS & RECOMMENDATIONS

- Parker-Hannifin HF-0, HF-1, HF-2 (HM)
- Eaton Vickers I-286-S, M-2950-S
- Bosch Rexroth RE 90220
- GM LS-2
- ASTM D6158 (HM)
- AIST (US Steel) 126, 127, 136
- ANSI/AGMA 9005-E02-RO
- Cincinnati Machine P-68, P-69, P-70
- Denison HF-1, HF-2, HF-0
- DIN 51506, VDL (LG), 51524 Part 2
- JCMAS P041 HK SEB 181222
- ISO 11158 (HM)

ADVANTAGES & BENEFITS

- **Excellent anti-wear performance:** Minimizes metal-to-metal contact and extends component life in high-load, high-shear environments.
- **Superior oxidative and thermal stability:** Resists degradation at elevated temperatures, significantly reducing varnish, sludge, and deposit formation.
- **Rapid and complete water separation:** Prevents emulsification, facilitating efficient water removal and minimizing corrosion risk in systems prone to water ingress.
- **Effective foam suppression and air release:** Reduces foaming and entrained air, enhancing system responsiveness and preventing cavitation.
- **Robust corrosion protection:** Inhibits rust and corrosion on ferrous and non-ferrous components, even in the presence of moisture.
- **Extended service life:** Capable of achieving up to 6,000 hours (or more, depending on operating conditions and monitoring) in well-maintained systems, substantially exceeding conventional mineral-based hydraulic fluids.

HEALTH & SAFETY

This product is not anticipated to pose any adverse health risks when used as intended.

For additional details, refer to separate Safety Data Sheets, available upon request.


TECHNICAL DATA/TECHNICAL PROPERTIES

PROPERTIES	ISO Viscosity Grade		
	22	32	46
Viscosity @ 40 °C, cSt	22	32	46
Viscosity Index	125	132	137
Pour Point, °C(°F)	-51 (-60)	-48 (-54)	-45 (-49)
Flash Point, °C(°F)	>220 (428)	>220 (428)	>220 (428)
Demulsibility @ 54 °C	Pass	Pass	Pass
FOAM Sequence II	Pass	Pass	Pass
Copper Corrosion, 3 hr at 100 C	1A	1A	1A
Steel Corrosion, ASTM 665 A & B	Pass	Pass	Pass
Oxidation (TOST), Hours	6,000	6,000	6,000
Product Code	LLEAW22	LLEAW32	LLEAW46

*All properties are typical and may vary.

Always adhere to the manufacturer's guidelines for the correct equipment fluid. Lubchem Specialties is not liable for any misuse of the product or improper application.