



ATLANTIC EAL BIO HYDRAULIC SERIES

High-Performance Hydraulic Oils

DESCRIPTION

ATLANTIC EAL BIO HYDRAULIC SERIES are fully synthetic, high-performance hydraulic and circulating fluids designed for demanding applications where environmental responsibility and equipment protection are critical. These oils deliver exceptional wear protection, film strength, and thermal stability, even under high pressure and load.

Proven and tested in ASTM D 2882, Vickers 35VQ25, and FZG Gear Load tests. They ensure long-term reliability for gears, bearings, and hydraulic systems. Their extraordinary multi-metal compatibility and corrosion resistance make them suitable for various system designs. Formulated with high-VI synthetic base oils and advanced additives, they offer superior oxidation stability, anti-foam performance, and extraordinary performance across a broad temperature range (-20°F to 200°F).

These fluids are fully biodegradable and non-toxic. Moreover, they are ideal for use in environmentally sensitive areas where spills or leaks could pose a risk. ATLANTIC EAL BIO HYDRAULIC SERIES combine premium performance with sustainability, making it the perfect choice for responsible modern operations.

APPLICATIONS

- Hydraulic systems where spills or leakage could result in damage to the environment
- In systems where readily biodegradable and virtually non-toxic fluids may be required
- Circulation systems containing gears and bearings where mild extreme-pressure characteristics are desired
- Systems containing servo-valves
- Hydraulic systems operating with oil temperatures in the range of -20°F to 200°F
- Marine and mobile equipment operating in environmentally sensitive areas
- Circulation systems operating under mild to moderate service conditions
- Industrial hydraulic systems where leaked or spilled fluids could get into plant effluent
- Air line oilers and some limited oil-mist generating systems
- Air-over-hydraulic fluid systems operating in environmentally sensitive areas

PERFORMANCE FEATURES AND BENEFITS

- Superb wide-temperature range performance
- Extraordinary Corrosion Protection
- Exceptional Anti-Wear and Load-Carrying Properties
- Good Elastomer Compatibility
- High oxidation stability
- Ready Biodegradability
- Non-Toxicity
- Super Multi-Metal Compatibility

SPECIFICATIONS AND APPROVALS

Eaton I-286-S (ISO VG 46 & 68)

Eaton M-2950-S (ISO VG 46 & 68)

TYPICAL TECHNICAL PROPERTIES

PRODUCT CODE:	SL-BIO-25001.1	SL-BIO-25001.2	SL-BIO-25001.3
ISO Viscosity Grade	32	46	68
Density @ 15 C, kg/l, ASTM D4052	0.869	0.874	0.884
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	33.1	48.8	69
Kinematic Viscosity at 100°C, mm ² /s, ASTM D445	6.36	7.8	10.1
Viscosity Index, ASTM D2270	147	145	138
Flash Point, Cleveland Open Cup, °C, ASTM D92	268	260	266
Pour Point, °C, ASTM D97	-39	-45	-39
Aquatic Toxicity, LL50, ppm, OECD 203 Mod	>5000	>5000	>5000
Biodegradability, CO ₂ Conversion, %, EPA560/6-82-003	>60	>60	>60
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	12	12	12
Rust Characteristics, Procedure B, ASTM D665	PASS	PASS	PASS

Note: These characteristics are typical of current production. While future production will conform to Atlantic's specification, variations in these characteristics may occur.

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* supersedes all previous versions

Packing: 18L, 20L, 25L, 200L, 205L, 208L, 210L