

ExxonMobil Mobil EAL 224H

Category : Fluid , Lubricant

Material Notes:

Mobil EAL 224H is a premium performance environmentally aware hydraulic fluid designed to provide outstanding performance in hydraulic and circulation systems operating at moderate conditions. It provides excellent anti-wear and film strength characteristics necessary for hydraulic systems operating under high load and high pressures. Its 12-stage rating in the FZG Gear Load test demonstrates a high level of protection against wear and scuffing and the suitability of this product to protect gears and bearings used in conjunction with hydraulic systems. Mobil EAL 224H provides excellent protection against corrosion and ensures very good multi-metal compatibility allowing its use in systems employing various metallurgy that may be used in pump and component designs. It also provides very good thin oil film protection against rusting. In addition to its exceptional performance capability, it satisfies the requirements for ready biodegradability and non-toxicity making it a desirable product where leakage or spillage of conventional oils could result in damage to the environment. It is formulated from select, high-quality, high-VI vegetable oils and a specifically engineered additive system to meet or exceed the performance requirements of most hydraulic pump and system builders while satisfying the stringent criteria for biodegradability and toxicity. 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; Systems containing servo-valves; Hydraulic systems operating with oil temperatures in the range of 0 F to 180 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

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http://www.lookpolymers.com/polymer_ExxonMobil-Mobil-EAL-224H.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.921 g/cc	0.921 g/cc	15°C; ASTM D1298
Viscosity Measurement	212	212	Index; ASTM D2270
Kinematic Viscosity at 40°C (104°F)	36.78 cSt	36.78 cSt	ASTM D445
Kinematic Viscosity at 100°C (212°F)	8.3 cSt	8.3 cSt	ASTM D445

Mechanical Properties	Metric	English	Comments
Four Ball Wear	0.350 mm	0.0138 in	40 kg, 93°C, 600 rpm; ASTM D4172

Thermal Properties	Metric	English	Comments
Pour Point	-34.0 °C	-29.2 °F	ASTM D97
Flash Point	294 °C	561 °F	ASTM D92

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Acute Toxicity, 1-G50, Trout, OECD 203, ppm	5000 (min)	
Biodegradability, CO2 Conversion, %	70 (min)	EPA 560/6-82-003
FZG Gear Test, DIN 51534, Fail Stage	12	
Vickers V-104C Pump Water, ASTM D2882, mg	10	

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