

Product Data Sheet

Mobil EAL 224H Biodegradable Anti-Wear Hydraulic Oil

Product Description

Mobil EAL 224H is an environmentally acceptable anti-wear hydraulic oil designed for stationary and mobile plant where high oil leakage rates require an oil with minimal impact on the environment.

Mobil EAL 224H is manufactured from a naturally high viscosity index vegetable base fluid and contains non-toxic additives to improve wear protection, oxidation stability and corrosion resistance.

Benefits

Mobil EAL 224H offers the following benefits:

- Environmentally acceptable, will readily biodegrade if accidentally split
- Provides long service life relative to other vegetable based products
- Minimises damage to the ecosystem if inadvertent release occurs
- Excellent filterability
- Excellent wear protection extends pump life and minimises maintenance requirements
- Excellent multi-metal compatibility ensures against chemical attack of slipper pads, valve plates and all ferrous components
- Excellent corrosion resistance protects against rust formation

Applications

Mobil EAL 224H is suitable for most industrial and mobile plant hydraulic applications where additional measures need to be taken to minimise damage to the environment in the event of fluid leakage.

In contrast to mineral oils, vegetable based fluids are not highly refined to remove unwanted constituents and therefore possess different properties to mineral hydraulic oils. To ensure long service life it is recommended that these fluids are not used at bulk temperatures outside the range of -20 to 70°C. Additionally, it is recommended that when installing an environmentally acceptable fluid the system is thoroughly flushed to remove as much as petroleum based products as possible.

Also it is advisable to take precautions to avoid contaminating vegetable based fluids with petroleum based lubricants as they are only compatible in small proportions (less than 5% contamination).

Properties

Mobil EAL 224H is a high quality anti-wear environmentally acceptable hydraulic oil designed to rapidly biodegrade if accidentally spilt. It is suitable for most modern hydraulic systems operating at pressures of up to 250 bar (3600 psi). Above this pressure it is advisable to seek clarification from the equipment manufacturer as to whether this fluid is suitable.

Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

Product Characteristics

	Mobil EAL 224H
Viscosity, cSt at 40°C	36
Viscosity, cSt at 100°C	8.4
Viscosity Index	212
Pour Point, °C	-33
Flash Point, °C	289
Relative Density 15/4°C	0.92
FZG Gear Test Failure Stage	12
Vickers V-104C Pump Wear, mg	10
Biodegradability EPA 560/6-82-003 (CO ₂ conversion)	>70
Aquatic Toxicity Modified OECD203 (LC50 Trout, ppm)	>5000
German Water Class Hazard Rating	0

Due to continual product research and development, the information contained herein is subject to change without notice

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