HYDRO BIO 46

Biodegradable High Performance Hydraulic Oil

REXOIL HYDRO BIO 46 is a biodegradable hydraulic oil formulated with high-quality natural esters and advanced oxidation inhibitors to ensure reliable performance and extended service life. It is specifically developed for **ISO VG 46** hydraulic systems operating in environmentally sensitive areas. This hydraulic fluid complies with the **Environmental Protection Agency (EPA) Vessel General Permit (VGP)** requirements for **Environmentally Acceptable Lubricants (EALs)** and meets biodegradability standards in accordance with **OECD 301 B**.

Features and Benefits

- **Biodegradable formulation:** Readily biodegradable in accordance with OECD 301 B, helping to minimize environmental impact in case of leakage or spillage.
- **Environmentally acceptable lubricant (EAL):** Designed to comply with EPA Vessel General Permit (VGP) requirements, making it suitable for marine and environmentally sensitive applications.
- **High-performance natural ester base oils:** Provide excellent lubricity and film strength, reducing wear and extending equipment life.
- **Outstanding oxidation stability:** Special oxidation inhibitors help resist oil degradation, supporting longer oil service intervals and reliable operation.
- **Excellent anti-wear protection:** Protects hydraulic components such as pumps, valves, and seals, ensuring smooth and efficient system performance.
- **Good corrosion and rust protection:** Helps safeguard metal surfaces against moisture-related corrosion in demanding environments.
- **Wide temperature performance:** Maintains stable viscosity and reliable hydraulic response across a broad operating temperature range.
- **Seal compatibility:** Compatible with commonly used seal materials in hydraulic systems, reducing the risk of leakage.

Approval and Specifications

ISO 15380 HEPR; OECD 301B; DIN 51524-2 HLP; DIN 51524-3 HVLP-D; ISO 6743-4

Technical Specifications

Test	Method	Typical Properties
ISO GRADE		**46**
Kinematic Viscosity (40°C), [cSt]	ASTM D445	41.4 - 50.6
Viscosity Index	ASTM D2270	Min. 160
Flash Point, °C	ASTM D92	Min. 240
Pour Point, °C	ASTM D97	Max. -40

Health and Safety

This product does not pose a significant health or safety risk when used appropriately. For detailed safety information, please refer to the Safety Data Sheet (SDS).

Storage & Handling

Store in a cool, dry, and well-ventilated area, away from direct sunlight and moisture. Keep containers tightly closed to prevent contamination. Dispose of contents and containers in accordance with local regulations.

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