

G-Energy X Hydro Bio 46

Readily Biodegradable Fully Synthetic Hydraulic Fluid

G-Energy X Hydro Bio 46 is high performance hydraulic oil for modern hydraulic systems operating in environmentally sensitive areas. Formulated with synthetic readily biodegradable esters and carefully selected additive package it provides excellent antiwear properties, good thermal stability and corrosion protection. The high natural viscosity index ensures excellent low and high temperature properties for equipment that is subjected to a wide range of start-up and operating temperatures.

Applications

- Mobile, marine, forestry and industrial equipment operating in environmentally sensitive areas
- Hydraulic systems where accidental fluid loss into the environment and plant effluent or where surface water contamination should be avoided
- In order to ensure that the environmental properties and performance are maintained, the hydraulic system should be drained and flushed thoroughly when changing fluids. It is always recommended to test for miscibility

Features	Advantages and Potential Benefits
Rapidly biodegradable	Biodegraded by over 70% after 28 days in the OECD 310B carbon dioxide evolution test. Reduces potential for environmental damage and lowers potential remediation and clean-up costs caused by spills or leakage
Very high renewable content	Lower environmental impact
Excellent antiwear properties	Protects system components against wear providing excellent performance of components
High viscosity index and low pour point	Helps improve system operation over a wide temperature range and maintains excellent viscosity characteristics for long equipment life
Excellent thermal and oxidation stability	Reduced deposits and sludge formation enabling long oil and filter life
Excellent water demulsibility	Ease of water removal helps to avoid deposit formation and filter plugging for enhanced equipment reliability
Fast air release and low foaming	Provide efficient hydraulic power transfer and minimize cavitation to prolong equipment life
Good compatibility with most seal materials	Works well with same elastomers used with conventional mineral hydraulic oils

Recommendations

- ISO 15380 HEES
- EU Ecolabel
- Swedish Standard SS 15 54 34

Typical Characteristics

Properties	Method	G-Energy X Hydro Bio 46
ISO Viscosity Grade		46
ISO Fluid Type	ISO 6743-4	HEES
Kinematic Viscosity @40°C, mm ² /s	ASTM D445	46,0
Kinematic Viscosity @100°C, mm ² /s	ASTM D445	9,4
Viscosity Index	ASTM D2270	192
Flash Point (COC), °C	ASTM D92	270
Pour Point, °C	ASTM D97	-39
Density @15°C, kg/m ³	ASTM D4052	916
TAN, mg KOH/g	ASTM D664	1,7

Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.

✔ ISO 9001

✔ ISO 14001

✔ ISO/TS 16949

✔ OHSAS 18001

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