



Gulf Harmony Bio-Synth 46

Biodegradable Hydraulic Fluid

Product Description

Gulf Harmony Bio-Synth 46 is a biodegradable hydraulic oil with extra high viscosity index and extremely low pour point specially designed for forestry machinery and equipment operating in extreme climatic conditions and environmentally sensitive area like Arctic climate area. Above is formulated with biodegradable synthetic base stocks and specially selected additive system to meet the requirements of modern hydraulic systems. Above oil has been certified & listed at EUROPEAN ECOLABEL.

Features & Benefits

- Specially selected Bio-degradable material has a 70% biodegradability.
- Extremely high viscosity index and low pour point makes these oils suitable for cold climate operation.
- Good thermo-oxidative stability reduces deposit formation and improves pump & valve performance
- Excellent anti-wear property results in longer pump life and reduced maintenance costs
- Special rust & corrosion inhibitors protect multi-metallurgy components against corrosion
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems

Applications

- Environmentally sensitive areas requiring fluids which are virtually non-toxic and readily bio-degradable
- High performance, heavy duty hydraulic and power transmission systems of forestry machinery and equipment operating in extreme climatic conditions like Arctic climate area.
- Other hydraulic systems for improved performance in marine, construction, mining, agriculture, manufacturing and mobile application requiring bio-degradable hydraulic fluids

Specifications, Approvals & Typical Properties

ISO Viscosity grade		46
Meets the following Specifications		
ISO 15380		x
O-L-HEES 46		x
DIN 51524-3		x
EUROPEAN ECOLABEL		x
Typical Properties		
Test Parameters	ASTM	Test Values
Viscosity @ 100 °C, cSt	ISO 3104	9.3
Viscosity @ 40 °C, cSt	ISO 3104	47.1
Viscosity Index	ISO 2909	185
Flash Point, °C	ISO 2592	310
Pour Point, °C	ISO 3016	-45
Density @ 15°C, Kg/l	ISO 12185	0.920
Rust Test	ISO 7120 A	Pass
Copper Corrosion (3 hrs @ 100°C)	ISO 2160	1a
Air Release at 50 °C, in min.	ISO 9120	2
FZG, fail load stage. A/8,3/90	ISO 14635-1	12
Biodegradability, % readily biodegradable	OECD 301B	70

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Properties mentioned are typical only and minor variations, which do not affect product performance, are expected to arise in normal manufacturing processes. Please follow equipment manufacturer's recommendations for performance level and viscosity grade. The Safety Data Sheet for this product is available from your nearest Gulf Distributor. Please consult our local representative if any further information is required.

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