



Gulf Harmony Bio-Synth

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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