

Bio-Hydraulic 46 Premium Biodegradable Hydraulic Oil

Features & Benefits

- Full synthetic, PAO-based HEPR Fluid
- Compatible with HEES, HETG, mineral, PAO and synthetic esterbased hydraulic fluids
- · Readily biodegradable
- Excellent choice for hydraulic and circulation systems operating in environmentally sensitive areas

Specifications

✓ Meets Requirements

Specification	Bio-Hydraulic 46
Parker (Denison) HF-0	✓
Vickers Industrial Applications	✓
Cincinnati Milacron P-70	✓

Bio-degradability Specifications	Bio-Hydraulic 46
Bio-degradation ASTM D5864	Ultimate Biodegradable (Pw1)
2013 VGP/EAL Compliant	Yes

Typical Results

Test Method	Bio-Hydraulic 46
ISO GRADE	46
DENSITY @ 15 ° C (D4052) (kg/l)	0.876
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	43.8 9.7
VISCOSITY INDEX (D2270)	215
POUR POINT (D97) (°C)	-38
FLASH POINT (D92) (°C)	243
FIRE POINT (D92) (°C)	266
4-BALL WEAR (mm)	0.35
FZG GEAR TEST (D5182) (Load Stage)	12
DEMULSIBILITY (D1401) (mL oil – mL – water – mL Emulsion) (mins)	40/40/0 (10)



Bio-Hydraulic 46 is a premium synthetic zinc-free and ashless environmentally friendly hydraulic fluid.

Bio-Hydraulic 46 meets the requirements for ultimate biodegradability and non-toxicity, making it an excellent choice for hydraulic and circulation systems operating in environmentally sensitive areas.

Bio-Hydraulic 46 is formulated with synthetic PAO (HEPR) and fully compatible with HEES, HETG, other mineral oils, PAOs, and synthetic esters. Mixing is not recommended for VGP requirements. **Bio-Hydraulic** 46 is incompatible with HEPG (Polyglycols) or PAG synthetic oils.

Bio-Hydraulic 46 was developed to meet most major hydraulic pump and system manufacture requirements with added anti-wear and film strength additives designed to provide exceptional protection against rust and corrosion for hydraulic systems operating under high load and high-pressure settings.

Bio-Hydraulic 46 adheres to the "biodegradable," "minimally-toxic," and "not bio-accumulative" requirements specified in Appendix A of the 2013 Vessel General Permit provided by the United States Environmental Protection Agency.

Sizes & Order Codes

Size	Bio-Hydraulic 46
18.9L / 5.0 US gal	F0123540

www.irvingoil.com/lubricants 1.800.574.5823