BIO-HEPR

HYDRAULIC OIL – PAO based

Description

Bio-HEPR Hydraulic Fluid is a fully synthetic, biodegradable hydraulic oil based on fully renewable base oil to reduce carbon footprint. Engineered to meet ISO 15380: HEPR specifications, it offers superior performance in high-pressure hydraulic systems while minimizing environmental impact. The formulation provides excellent thermal and oxidative stability, outstanding lubricity, and compatibility commonly used materials in hydraulic equipment.

Areas of Application

- Mobile and industrial hydraulic systems operating under high pressures and varying temperatures
- Construction machinery, forestry, and agricultural equipment
- Applications requiring environmentally friendly hydraulic fluids for sensitive ecosystems
- Situations demanding extended fluid life and reduced maintenance intervals

Characteristic features

- Renewable base stock (bio-PAO)
- Readily biodegradable according to OECD 301
- Excellent oxidation and thermal stability
- Superior EP (Extreme Pressure) and AW (Anti-Wear) protection
- Good material compatibility
- Low volatility, reducing oil loss and maintenance costs

Typical characteristics

PARAMETER	UNIT	TEST METHOD	BIO-HEPR 32	BIO-HEPR 46	BIO-HEPR 68
Density at 15 °C	kg/m^3	ISO 12185	840 – 860	840 – 860	840 – 860
Kinematic Viscosity at 40°C (ISO VG)	mm^2/s	ISO 3104	29 – 35	41 – 51	61 – 75
Kinematic Viscosity at 100°C (ISO VG)	mm^2/s	ISO 3104	6,7	8,1	11,0
Viscosity Index	--	ISO 2909	> 150	> 150	> 150
Pour point	°C	ISO 3016	< - 25	< - 25	< - 25
Flash point, COC	°C	ISO 2592	> 240	> 280	> 280
Foaming (sequence I., II., III)	ml	ISO 6247	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
Copper corrosion	rating	ASTM D130	1a	1a	1a
Oxidation stability (Petrooxy)	min	RSSOT	> 1200	> 1300	> 1300
Biodegrability (within 28 days)	%	OECD 301D	> 60	> 60	> 60

BIONA Jersín s.r.o. | Jersín 45, 588 25 Jersín, Czech Republic
tel./fax: +420 567 277 164 | info@biona.cz | www.biona-oils.com

Note

All information is provided to the best of our knowledge and represents general, non-binding guide values. Technical data are average values and are subject to the usual production fluctuations. In case of doubt, please contact our Technical Service. For information concerning safety, the environment and the handling of the product, please refer to our EU safety data sheet. Our products are subject to continuous development. We therefore reserve the right to change the products and their manufacturing processes as well as all information contained in this document at any time and without prior notice.

Standard and Guidelines

BIO-HEPR is designed to meet or exceed the performance requirements of:

- ISO 6743-4: Lubricating fluids for hydraulic systems
- ISO 15380: HEPR

Environmental and Safety Notes

Readily biodegradable (OECD 301D > 60 % / 28 days)

Issue: December 2025

BIONA Jersín s.r.o. | Jersín 45, 588 25 Jersín, Czech Republic
tel./fax: +420 567 277 164 | info@biona.cz | www.biona-oils.com