

HYDRAU-PLUS BIO HTB-T 46

BIODEGRADABLE HYDRAULIC OILS

326102201



HYDRO TREATED BASED HIGH PERFORMANCE READILY BIODEGRADABLE HYDRAULIC FLUID

This hydraulic fluid is formulated with the latest hydro-treated base oil and ashless additives to ensure high performance and extended service life. It exhibits excellent high viscosity-temperature characteristics, along with strong extreme pressure and anti-wear properties, delivering reliable and trouble-free operation, even in high-temperature environments. This product is also Anti-Static, as it contains no metals in its zinc-free formula. However, the absence of metals may affect conductivity, causing issues with the discharge of static electricity. To address this, the formulation is designed to maintain good conductivity levels (>2000pS/m) while maintaining its exceptional performance characteristics. These products are ideal for hydraulic applications that require environmental sensitivity, and can be used in various hydraulic systems, light gearboxes, and for general lubrication purposes. They are specifically designed to provide trouble-free operation, especially in cases where conventional hydraulic fluids

fail due to sludge and deposit formation at higher temperatures. These products are recommended for high-pressure hydraulic systems or equipment that operate over a wide range of temperatures, where it is crucial to maintain the viscosity-temperature characteristics under high shear conditions. The high viscosity index ensures low start-up viscosity and a stable lubricating film at high operating temperatures. They can also be used in high-flow hydraulic systems in the gas and offshore industry. These products are formulated to meet and exceed the standards of Denison HF-0, Eaton Vickers M-2950-S and I-286-S, and Bosch Rexroth DIN 515244 Part 3.

PROPERTY	METHOD	VALUE
Appearance	Visual	Amber translucent
FOOT	ASTM D1298	0.840
Viscosity @ 40 °C, mm ² /s	ASTM D445	46
Viscosity @ -20 °C, mm ² /s	ASTM D445	2066
FOOT	ASTM D445	12.8
Viscosity @ 100 °C, mm ² /s	ASTM D445	7.9
Viscosity index	ASTM D2270	182
Flash point, °C	ASTM D92	240
Pour point, °C	ASTM D97	-42
Copper corrosion 3h @ 100 °C	ASTM D130	1a
Corrosion prevention test A (distilled water)	ASTM D665	Pass
Corrosion prevention test B (sea water)	ASTM D665	Pass
Emulsion characteristics, max	ASTM D1401	20
TAN, (max) mg KOH/g	ASTM D664	1.0
FZG	DIN 51 354-2	12
Foaming characteristics, 10 min -Sequence I	ASTM D892	Nil
Foaming characteristics, 10 min -Sequence II	ASTM D892	Nil
Foaming characteristics, 10 min -Sequence III	ASTM D892	Nil

CATEGORY

- Hydraulic Fluids

BENEFITS

- Excellent anti-wear protection
- Good emulsifying and air-release properties
- Good anti-oxidation for a long service life (up to 10.000 hours, ASTM D943)
- Lasts up to three times longer than the leading conventional hydraulic fluids
- Excellent anti-corrosion properties
- Excellent low & high temperature properties
- No sludge and deposit creation due to the absence of aromatics
- Zinc free formulation
- Low friction and therefore up to 8% less energy consumption in comparison with conventional hydraulic fluids

All data on this technical data sheet is indicative only

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DYADE LUBRICANTS B.V.
TYPOGRAAF 16 | 6921 VB DUIVEN
THE NETHERLANDS

0031 (0) 316 745 745
INFO@DYADEGLOBAL.COM
WWW.DYADEGLOBAL.COM

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