

TECHNICAL DATA SHEET

AIMOL Hydrotech HLP BIO

Hydro treated based high performance readily biodegradable hydraulic fluid

DESCRIPTION

High performance hydraulic fluid, based on the latest technology hydro treated base oil and ashless additive technology. The use of special additive packs warrants optimal performance and a long service life. **AIMOL Hydrotech HLP BIO** combines high viscosity – temperature characteristics with good extreme pressure and anti wear properties for reliable and trouble free performance even at high operating temperatures.

APPLICATIONS

- Particularly suitable for hydraulic applications which are environmentally sensitive
- Can be used in all available hydraulic applications, as well as light gear boxes and is perfectly suitable for general lubrication purposes
- Developed to provide trouble free operation, specially in cases where a conventional based hydraulic fluid fails (sludge and deposit creation at higher temperatures etc.)
- Recommended for high pressure hydraulic systems or equipment operating over wide temperature ranges where it is critical to retain viscosity-temperature characteristics under high shear conditions
- The high viscosity index **AIMOL Hydrotech HLP BIO** ensures a low start up viscosity, as also a stable protecting lubricating film at high operating temperatures
- Formulated to meet and exceed; Denison HF-0, Eaton Vickers M-2950-S and I-286-S, Bosch Rexroth DIN 515244 Part 3

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

TYPICAL FIGURES

Parameter	Test method	BIO 15	BIO 22	BIO 36	BIO 46	BIO 68
Appearance	Visual	Bright & clear				
Density @ 29,5 °C	ASTM D1298	0,82	0,823	0,835	0,840	0,860
Viscosity @ 40 °C, cSt	ASTM D445	15	22	35	46	68
Viscosity @ -20 °C, cSt	ASTM D445	238	495	1213	2066	
Viscosity @ 80 °C, cSt	ASTM D445	5,4	7,5	10,5	12,8	
Viscosity @ 100 °C, cSt	ASTM D445	4	5,3	6,6	7,9	11
Viscosity Index	ASTM D2270	179	188	179	182	153
Flash point, °C	ASTM D92	160	190	201	206	212
Pour point, °C	ASTM D97	-45	-45	-42	-42	-42
Copper corrosion test @ 100 °C / 3 hrs.	ASTM D130	1a	1a	1a	1a	1a
Rust preventive characteristics	ASTM D665AB	Passes	Passes	Passes	Passes	Passes
Emulsion characteristics, max	ASTM D1401	20	20	20	20	20
T.A.N., mg KOH/g, max	ASTM D664	1.0	1.0	1.0	1.0	1.0
FZG	DIN 513542	12	12	12	12	12
Foaming characteristics, 10 min • Sequence I • Sequence II • Sequence III	ASTM D892	 Nil Nil Nil	 Nil Nil Nil	 Nil Nil Nil	 Nil Nil Nil	 Nil Nil Nil

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Fish Acute toxicity test (OECD 203)

Loading Ratio (g/1000g)	0	1,04
Mortality after 24 hours %	0	0
Mortality after 48 hours %	0	0
Mortality after 72 hours %	0	0
Mortality after 96 hours %	0	0

CONCLUSION

The test substance gives no acute toxicity towards fish at the defined loading ratio: EL50-96h is over 1.00/100

TECHNICAL DATA INFO LINE

Should you require additional information or advice on AIMOL products, please contact us as per the details below.

HEALTH AND SAFETY

AIMOL Hydrotech HLP BIO has no adverse health effects provided it is used as directed.

Typical figures as indicated may vary per production cycle and can change at manufacturers' option. Specifications, however, are guaranteed. Because of continuous product research and development, the information within this data sheet is subject to change without any notification. Although every effort is made to ensure accurate information, A.I.M. bv accepts no liability for any loss or damage suffered caused by the incorrectness and/or incompleteness of this text, and as a result of using this product for any application other than explicitly stated in this data sheet.

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