

BIO-HYDRAULIC

Biodegradable Hydraulic Oil



Features

Irving **BIO-HYDRAULIC** meets or exceeds the following manufacturers and industry test standards:

- Haggglunds Denison HF-0, HF-2, HF-6 including P-46 (piston) and T5D-42 (vane) pump tests
- Vickers M-2959-S, using 35 VQ 25 vane pump in both standard (50 hours) and extended (300 hours) tests
- ASTM D-2882, using Vickers V104C vane pump
- CEC L-33-T-82, readiness of biodegradation
- OECD 301B (modified Sturm),

Benefits

- Excellent all-round performance
- Biodegradable with low toxicity
- Wide operating temperature range a natural multi-grade
- Suitable for all types of pumps, even those with silver-plated parts

Check with sales representative or website for the latest product approvals.

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Typical performance results

ISO GRADE	46
DENSITY @ 15°C (D-4052), kg/l	0.9200
COLOUR (D-1500)	2.0
VISCOSITY (D-445) CST @ 40°C CST @ 100°C	42.5 9.1
VISCOSITY INDEX (D-2270)	203
BROOKFIELD VISCOSITY (D-2983) CP @ -30°C	3000
POUR POINT (D-97), °C	-30
OXIDATION LIFE (D-943), HRS	1000+
FLASH POINT (D-92), °C	278
ACID NUMBER (TAN)(D-974), mgKOH/g	0.69
FZG LOAD STAGE (PASS)	11
ZINC CONTENT (%WT)	<0.005
USEFUL OPERATING TEMPERATURE, °C, MIN/MAX	-17/85
COPPER CORROSION 3H/100°C	1a

Available sizes & part numbers

	946ml (1US Quart)	3.78L (1 US gal)	18.9L Pail (5.0 US gal)	205L Drum (54.2 US gal)	1000L Cube (264 US gal)	Bulk
Bio-Hydraulic 46			F0083040	F0071850		B0000301



Lubricants

www.irvinglubricants.com