"Its the Film" ®
PREVENTS WEAR AND CORROSION
LUBRIPLATE
SUPER-LUBRICATION

ISO-9001 Registered Quality System.
ISO-21469 Compliant.

Sales, Service & Distribution Center
Newark, NJ 07105
Phone: 973-589-9150 Fax: 973-589-4432

Manufacturing, Sales, Service & Distribution Center
Toledo, OH 43605
Phone: 419-691-2491 Fax: 419-693-3806

Sales and Tech Service Support
Phone: 1-800-733-4755

PRODUCT DATA

LUBRIPLATE BIOBASED GREEN HYDRAULIC FLUIDS
ISO 32, 46 & 68

LUBRIPLATE Biobased Green Hydraulic Fluids are ultimately biodegradable[1] vegetable based formulas that replace mineral oil based hydraulic fluids. They are formulated to perform in hydraulic systems that require Anti-Wear (AW), anti-rust, anti-oxidation, anti-foam and demulsibility properties. They are highly inhibited against moisture and rusting in both fresh and sea water and pass both A and B Sequences of the ASTM D-665 Turbine Oil Rust Test. Incorporating the super high viscosity index of the Stabilized* High Oleic Base Stocks (HOBS) into the formula, increases the viscosity index past synthetic levels (Energy Conserving Formulas). Zinc-free additive systems have also been developed that are environmentally friendly and meet or exceed pump requirements.

LUBRIPLATE Biobased Green Hydraulic Fluids are designed for use in mobile and stationary hydraulic vane, piston and gear-type pumps and have shown to have exceptional anti-wear performance. **Very little wear was encountered, 0 to 25mg (Pass), in accelerated biobased tests using Denison T-5D, Vickers 20VQ, 35VQ-25 (M-2950-S) and V-104C (ASTM D-2882) pump stand tests at pressures and temperatures ranging from 2000 to 3000 psi and from 150º to 210ºF.** The anti-wear performance exceeds the requirements for US Steel 126 and 127, load stage 10 in the FZG (DIN 51354), DIN 51524 and GM (LS-2). They also meet the requirements for ashless GL-3 gear oils in reduction units and gear sets where they meet the viscosity ranges. These fluids meet or exceed Federal Specification A-A-59354 Superseding MIL-H-46001D.

LUBRIPLATE Biobased Green Hydraulic Fluids should be used in hydraulic systems where low toxicity and BIODEGRADABILITY properties are required. Base oils and additives in these products pass and exceed the acute toxicity (LC-50) criteria adopted by the US Fish and Wildlife Service and the US EPA. LUBRIPLATE Biobased Green Hydraulic Fluids are ENVIRONMENTALLY RESPONSIBLE lubricants that are formulated from renewable agricultural plant resources.

[1]Ultimate Biodegradation (PW1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants

Typical Test Data

PROPERTY	TEST METHOD	TYPICAL RESULTS*			
	ASTM	ISO 32	ISO 46	ISO 68	Spec. Requirements
Specific Gravity	D-287	0.88	0.88	0.88	Report
Viscosity @ 40°C	D-445	30.87	43.8	64.1	Note 1
Viscosity @ 100°C	D-445	6.9	9.67	12.5	Note 1
Pour Point	D-97	-30°C	-35°C	-35°C	Note 1
Flash Point	D-92	236°C	243°C	251°C	198°C (min)
Fire Point	D-92	260°C	268°C	274°C	218°C (min)
Hydrolytic Stability: Copper Wt. Loss	D-2619	0.0139 (mg)	0.0208 (mg)	0.0208 (mg)	0.2
Copper Appearance		1B	1B	1B	Report
Change in Acid No.		0.16	0.20	0.21	Report
Water Layer		3.0	3.0	3.0	4
% Insoluble		0.001	0.001	0.001	Report
Foam Sequence I, II, III (10 min)	D-892	0 Foam	0 Foam	0 Foam	0 Foam
Rust Prevention: Distilled Water	D-665	Pass	Pass	Pass	Pass
Syn. Sea Water		Pass	Pass	Pass	Pass
Copper Corrosion	D-130	1B	1B	1B	DIN 51524 2
Demulsibility, ML Oil/Water/Emulsion	D-1401	40/40/0 (10 mins)	40/40/0 (10 mins)	40/40/0 (10 mins)	40/37/3 (max) (30 mins)
4-Ball Wear - Petrolube Labs	D-4172	0.3 - 0.4	0.3 - 0.4	0.3 - 0.4	USS 127 0.5
FZG Test – Clark Lab	DIN 51354	12	12	12	US Steel 10
Biodegradation Classification	D-5864	Ultimate PW1	Ultimate PW1	Ultimate PW1	Ultimate PW1

PACKAGING AVAILABLE	ISO 32	ISO 46	ISO 68
5 Gallon Pail	L1050-060	L1051-060	L1052-060
55 Gallon Drum	L1050-062	L1051-062	L1052-062

Printed in USA
Revised 9/10/2023