



# **Lubriplate® Environmentally Responsible Lubricants**

**Biodegradable, Synthetic  
Air Compressor Fluids**

**Environmentally Responsible  
Gear, Bearing and Chain Lubricants**

**Bio-Based/Vegetable Oil-Based  
Hydraulic Fluids**

**Biodegradable, Bio-Based  
UTF Universal Tractor Fluid**

**Biodegradable, Bio-Based  
Penetrating Oil - Multi-Purpose  
Lubricating Fluid**

**Environmentally Responsible,  
Petroleum/Mineral Oil-Based  
Lubricants**

**Low Toxicity Lubricants**



## ■ Lubriplate® Environmentally Responsible Lubricants

Lubriplate's environmentally responsible lubricants have been developed to help reduce the impact on our environment without sacrificing lubricant performance. Their use can also help our customers comply with the ever increasing environmental regulations for equipment operating in environmentally sensitive areas. The chart below lists some of the industry's standards and terms used for environmentally responsible lubricants.

Terminology	Test Method	Requirements / Results
Ultimate Biodegradation (Pw1)	ASTM D-5864	Minimum 60% converted to CO <sub>2</sub> in 28 days or less
Readily Biodegradable (Pw1)	OECD 301B	Minimum 60% converted to CO <sub>2</sub> in 28 days or less
Inherently Biodegradable (Pw2) (Pw3) (Pw4)	ASTM D-5864 or OECD 301B	Min. 60% (Pw2), 40% (Pw3), 20-39% (Pw4) converted to CO <sub>2</sub> in 84 days
Non/Low Acute Toxicity LC-50	US EPA LC-50	Pass

## ■ Environmentally Responsible, Synthetic Lubricants

### **SynXtreme AC Series:** Polyolester (POE)-Based, Biodegradable (Pw1), 100% Synthetic Compressor Fluids.

These state-of-the-art fluids are designed for maximum performance in rotary screw and vane type air compressors. Special advanced POE base esters combined with a multi-charged additive system produce unmatched oxidative stability, enhanced hydrolytic stability and excellent wear and corrosion protection. Potential for fluid drain intervals of +10,000 hours. Readily biodegradable (Meets OECD criteria) >70% biodegradation (Pw1).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY SUS @100°F / 210°F	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNXTREME AC 32	L0939-	32	10	32 / 6	-	125	525°F / 274°C	-	-51°F / -46°C
SYNXTREME AC 46	L0940-	46	20	46 / 7	-	117	527°F / 275°C	-	-40°F / -40°C
SYNXTREME AC 68	L0941-	68	20	66 / 9	-	103	530°F / 277°C	-	-20°F / -29°C

\*SynXtreme AC Series Fluids are available in 5 Gallon Pails (Package Part Number Suffix -060) and 55 Gallon Drums (Package Part Number Suffix -062).

### **Syncool Air Compressor Fluid:** Readily Biodegradable (Pw1), Synthetic Air Compressor Fluid.

A high-performance, readily biodegradable, synthetic air compressor fluid developed to meet the needs of most rotary screw and rotary vane air compressors where high operating temperatures are present and environmental issues are a concern. Readily biodegradable (Meets OECD criteria) >70% biodegradation (Pw1). Excellent thermal and oxidation stability helps eliminate harmful deposits and extend drain intervals.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL	L0964-	32/46	-	75W	10	41 / 8	172	530°F / 277°C	595°F / 313°C	-40°F / -40°C

\*Syncool Fluid is available in 5 Gallon Pails (Package Part Number Suffix -060) and 55 Gallon Drums (Package Part Number Suffix -062).

### **SYN BOC FG-68 & 220:** Biodegradable, NSF H-1 Registered, Synthetic, High Temperature Oven Chain Lubricants.

These unique, high-performance, bio-based/synthetic, biodegradable, food grade lubricants are manufactured and fortified with boron nitride. The boron nitride provides a light clean lubricating powder after the bio-based oil cleanly dissipates. Designed for high temperature applications, they will lubricate at extremely high temperatures up to 1000°F. They deliver performance advantages far beyond that of black graphite, PTFE and molybdenum disulfide-based lubricants. They are designed for many types of oven chain applications, both food grade and non food grade, including: bakery ovens, paint curing lines, drying ovens, tenter frame applications, etc. Low volatility for increased fire safety.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN BOC FG-68	L0955-	68	2	80	20	68 / 13	187	590°F / 332°C	-	-28°F / -33°C
SYN BOC FG-220	L0960-	220	5	90	50	219 / 36	214	588°F / 306°C	645°F / 337°C	-25°F / -32°C

\*SYN BOC FG-68 and SYN BOC FG-220 are available in Pails (Package Part Number Suffix -060) and Drums (Package Part Number Suffix -062).

### **PGO Series:** ECO-Responsible, Polyalkylene Glycol (PAG)-Based, Synthetic Gear, Bearing and Chain Lubricants.

These 100% polyalkylene glycol (PAG) fluids are designed for gearboxes, bearings and chains operating in the most demanding conditions. They provide outstanding thermal stability, excellent extreme pressure and anti-wear performance and protection against micropitting. They exceed 12 stages of the FZG test. Lubriplate PGO Fluids are free of zinc and other additives that may be undesirable in environmentally sensitive areas. They offer long service life and work well over extended fluid change intervals which conserves resources and helps ease waste oil disposal problems.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
PGO-150	L0845-	150	4	90	40	150 / 25	232	543°F / 284°C	-	-53°F / -47°C
PGO-220	L0838-	220	5	90	50	227 / 42	242	543°F / 284°C	-	-44°F / -42°C
PGO-320	L0840-	320	6	140	60	339 / 61	252	540°F / 282°C	-	-38°F / -39°C
PGO-460	L0839-	460	7	140	-	477 / 83	262	543°F / 284°C	-	-33°F / -36°C
PGO-680	L0846-	680	8	250	-	725 / 122	272	549°F / 287°C	-	-27°F / -33°C

\*PGO Series Fluids are available in Jugs (Package Part Number Suffix -057), Pails (Package Part Number Suffix -060) and Drums (Package Part Number Suffix -062).

## ■ Environmentally Responsible, Bio-Based Lubricants

**Bio-Based Series Hydraulic Oils:** Ultimately Biodegradable (Pw1), Low Toxicity (LC-50), Vegetable-Based Oils. For use in hydraulic systems where low toxicity and biodegradability properties are required. A zinc-free additive system delivers exceptional anti-wear, anti-rust, anti-foam and demulsibility properties. They meet ASTM D-5864 (Pw1) U.S. EPA and U.S. Fish and Wildlife requirements (LC50).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
BIO-BASED 32	L1050-	32	-	-	10	31 / 7	184	457°F / 236°C	500°F / 260°C	-40°F / -40°C
BIO-BASED 46	L1051-	46	1	75W	20	44 / 10	199	469°F / 243°C	514°F / 268°C	-40°F / -40°C
BIO-BASED 68	L1052-	68	2	80W	20	64 / 13	198	484°F / 251°C	525°F / 274°C	-38°F / -39°C

\*BIO-Based Series Hydraulic Oils are available in Drums (Package Part Number Suffix -062) and Spacecraft Bins (Package Part Number -070).

**UTF-Bio-Based/Green:** Ultimately Biodegradable (Pw1), Vegetable-Based, Universal Tractor Fluid.

An ultimately biodegradable (Pw1), vegetable-based fluid, designed for use in agricultural, construction/industrial equipment where UTF type fluids are required. Meets the requirements of API GL-4 and most OEMs including: John Deere's Hygard, J20-C, J14A, Quantrol™ J20D, Allison C-3 and C-4, Cat TO-2, Case, Ford, Massey-Ferguson White Farm, Kubota, Steiger and others.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
UTF-BIO-BASED/GREEN	L1072-	46	1	75W	20	48 - 10	210	484°F / 251°C	-	-38°F / -39°C

\*UTF-Bio-Based/Green is available in 5 Gallon Pails (Package Part Number Suffix -060) and 55 Gallon Drums (Package Part Number Suffix -062).

**Biodegradable Penetrating Oil Multi-Purpose Lubricating Fluid:** ECO-Friendly, Biodegradable, Vegetable-Based, Multi-Purpose Spray Lubricant.

An environmentally friendly, biodegradable, bio-based, lubricating oil for general lubrication of hinges, locks, latches, slides, chains, cables or anywhere metal contacts metal. Ideal for cars, boats, bicycles, garden equipment, guns, tools, office equipment, garage doors, farm equipment and golf courses. Provides a long lasting protective film that prevents friction, wear, rust and corrosion. Excellent moisture displacement properties. Available in 12 OZ. / 340 g. spray can, Part No. L0721-063. and in 14 OZ. / 414 ml. non-aerosol, hand pump, spray bottle. Part No. L0721-067.



## ■ ECO-Responsible, Petroleum/Mineral Oil-Based Lubricants

**Marine-Safe Hydraulic Oils:** Inherently Biodegradable, Non-Toxic to Aquatic Life (LC-50).

Formulated with premium USP white mineral oils and a zinc free anti-wear additive package, these high-performance hydraulic fluids meet or exceed the performance requirements of most types of hydraulic equipment while providing an additional level of environmental safety. Lubriplate Marine-Safe Hydraulic Oils are non-toxic to aquatic life, exceeding U.S. EPA LC50 and U.S. Fish and Wildlife requirements. These Inherently Biodegradable Oils also pass the U.S. Coast Guard Static Sheen Test Requirements. They meet the service requirements of Vickers, Racine, Denison HF-0, HF-2 and Cincinnati Milacron P-68, P-69 and P-70. They offer excellent oxidation stability and extended fluid change intervals.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
Marine-Safe 32	L0822-	32	-	-	10	33 / 6	110	395°F / 202°C	455°F / 235°C	-45°F / -43°C
Marine-Safe 46	L0823-	46	1	75W	20	44 / 7	108	425°F / 218°C	470°F / 243°C	-35°F / -37°C
Marine-Safe 68	L0824-	68	2	80W	20	68 / 9	104	445°F / 229°C	520°F / 271°C	-20°F / -29°C

\*Marine-Safe 32 through 68 is available in 5 Gallon Pails (Package Part Number Suffix -060) and 55 Gallon Drums (Package Part Number Suffix -062).

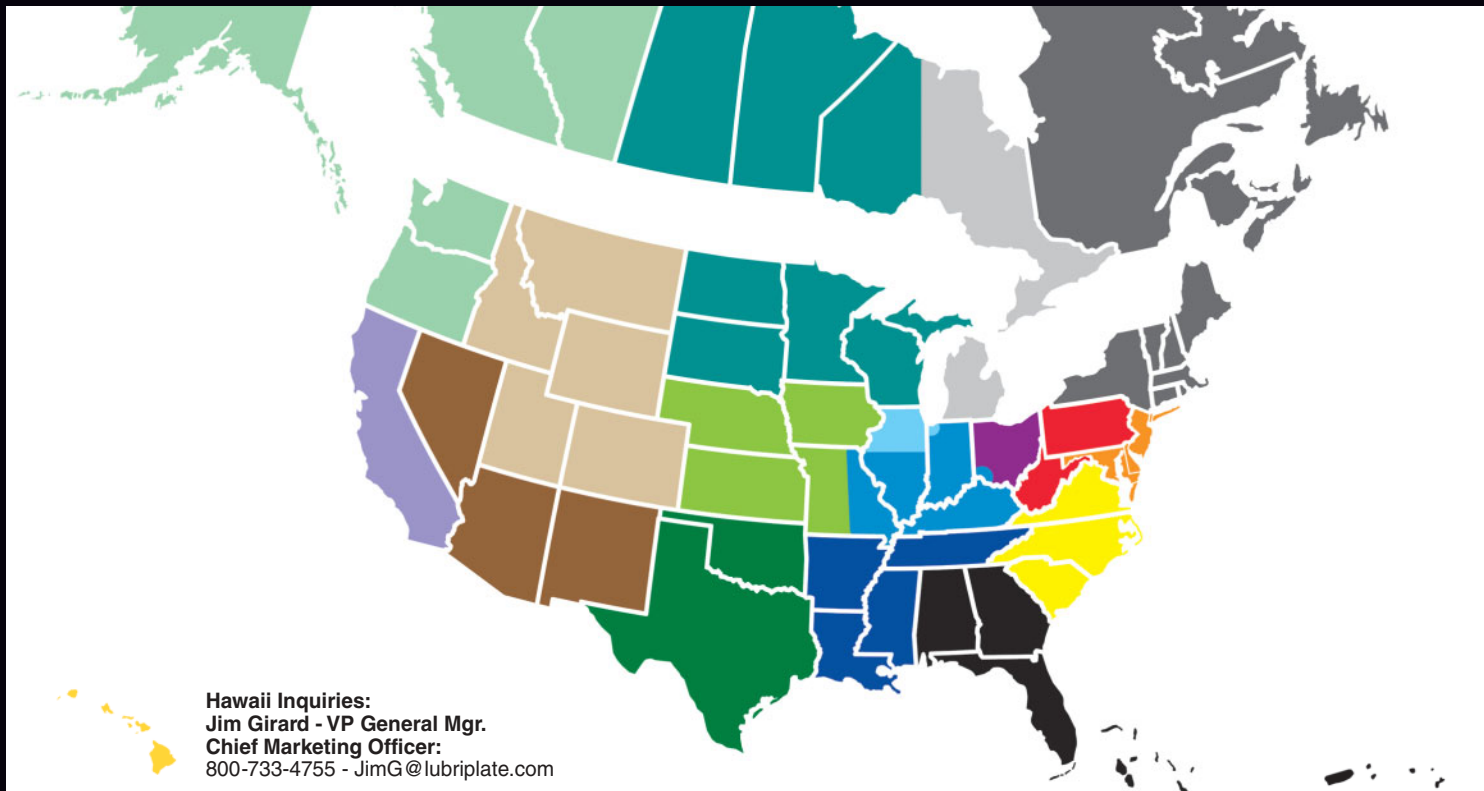
**ZF Series Hydraulic Fluids:** Heavy-Duty, Zinc-Free, Extended Life, Hydraulic Fluids.

These heavy-duty, high performance fluids were designed to perform in the most demanding hydraulic applications. They can withstand elevated temperatures and high pressures over extended periods thus providing long service life and extended fluid change intervals. They meet the service requirements of Vickers (Eaton) M-2950-S, I-286-S, General Motors LS-2, Bosch Rexroth RE 90 220, Denison HF-0, HF-1, HF-2 and Cincinnati Milacron P-68, P-69 and P-70. Lubriplate ZF Series Hydraulic Fluids are free of zinc or silicone compounds.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VISCOSITY cSt @40°C / 100°C	VISCOSITY INDEX	FLASH POINT	FIRE POINT	POUR POINT
ZF 32	L0948-	32	-	-	10	35 / 5	129	440°F / 227°C	480°F / 249°C	-40°F / -40°C
ZF 46	L0949-	46	1	75W	20	46 / 6	117	470°F / 243°C	510°F / 266°C	-35°F / -37°C
ZF 68	L0950-	68	2	80W	20	70 / 8	106	475°F / 246°C	510°F / 266°C	-20°F / -29°C
ZF 100	L0953-	100	3	80W	30	101 / 11	97	475°F / 246°C	545°F / 285°C	-10°F / -23°C

\*ZF Series Fluids are available in 5 Gallon Pails (Package Part Number Suffix -060) and 55 Gallon Drums (Package Part Number Suffix -062).

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