



ECO-FRIENDLY LUBRICANTS WITH

THE POWER TO PROTECT

YOUR MACHINERY, AND THE ENVIRONMENT

ZF SERIES HYDRAULIC OILS

MARINE SAFE SERIES HYDRAULIC OILS

BIO-BASED SERIES HYDRAULIC OILS

UTF-BIOBASED/GREEN TRACTOR FLUID

BIODEGRADABLE PENETRATING OIL

BIO-SYNXTREME HF SERIES HYDRAULIC FLUIDS

SYNXTREME AC SERIES COMPRESSOR FLUIDS

SYNCOOL & SYNCOOL FG COMPRESSOR FLUIDS

PGO SERIES GEAR OILS

BIOBASED EP-2 GREASE



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Lubricants

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Complimentary Extra Services Package

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Lubriplate® Environmentally Responsible Lubricants



Lubriplate's environmentally responsible lubricants have been formulated to help reduce their 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. This chart 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	Min 60% converted to CO2 in 28 days or less
Readily Biodegradable (Pw1)	OECD 301B	Min 60% converted to CO2 in 28 days or less
Inherently Biodegradable (Pw2) (Pw3) (Pw4)	ASTM D-5864 OECD 301B	Min. 60% (Pw2), 40% (Pw3), 20-39% (Pw4) converted to CO2 in 84 days
Non/Low Acute Toxicity LC50	US EPA LC50	Pass

ECO-Responsible, Petroleum/Mineral Oil-Based Hydraulic Oils

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.

Marine-Safe Hydraulic Oils: Non-Toxic to Aquatic Life (LC50).

Formulated 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. They meet the service requirements of Vickers, Racine, Denison HF-0, HF-2 and Cincinnati Milacron P-68, P-69 and P-70.

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 Pt. No. Suffix -060) and 55 Gallon Drums (Package Pt. No. Suffix -062).										
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 Pt. No. Suffix -060) and 55 Gallon Drums (Package Pt. No. Suffix -062).										

ECO-Responsible, Bio-Based Fluid Lubricants



Bio-Based Series Hydraulic Oils: Ultimately Biodegradable(Pw1), Vegetable-Based Oils.

For use in hydraulic systems where 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).

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
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	-22°F / -30°C
BIO-BASED 68	L1052-	68	2	80W	20	64 / 13	198	484°F / 251°C	525°F / 274°C	-31°F / -35°C
*BIO-Based Series Hydraulic Oils are available in 5 Gallon Pails (Package Pt. No. Suffix -060), 55 Gallon Drums (Package Pt. No. Suffix -062) and Spacekraft Bins (Package Pt. No. Suffix -070).										
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 Pt. No. Suffix -060) and 55 Gallon Drums (Package Pt. No. 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 11 OZ. / 312 g. spray can, Part No. L0721-063.



ECO-Responsible, Synthetic Fluid Lubricants



VGP COMPLIANCE STATEMENT

LUBRIPLATE BIO-SYNXTREME HF Series Hydraulic Fluids are Environmentally Acceptable Lubricants (EALs) according to the definitions and requirements of the US EPA 2013 Vessel General Permit, as described in VGP Section 2.2.9

BIO-SYNXTREME HF Series: Polyalkylene Glycol (PAG)-Based, Biodegradable (Pw1), Synthetic Hydraulic Fluids.

These high performance, zinc-free hydraulic fluids are designed for demanding industrial and marine (Vessel General Permit) applications requiring environmental sensitivity, fire resistance, and excellent anti-wear properties over wide temperature ranges. They are Polyalkylene Glycol (PAG) based fluids, that are anhydrous (water-free). LUBRIPLATE BIO-SYNXTREME Hydraulic Fluids do not break down to form sludge and they do not hydrolyze in the presence of water. Non-Sheening – Does not cause a sheen or discoloration on the surface of the water or adjoining shorelines. “Practically Non-Toxic” to fish and other aquatic wildlife according to the U.S. Fish and Wildlife Service hazard classification. They meet U.S. EPA Vessel General Permit (VGP) Requirements. Not compatible with hydrocarbon-based hydraulic fluids. As with any fluid conversion, recognized industry procedures including system cleanup and flushing should be followed.

SYNXTREME AC Series: Polyolester (POE)-Based, 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.

SYNCOOL & SYNCOOL FG (H1 Food Grade): Biodegradable, Polyglycolester (PGE)-Based Compressor Fluids.

These high-performance, biodegradable, polyglycol/ester (PGE)-based, synthetic air compressor fluids were 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. They are readily biodegradable (Meets OECD criteria) >70% biodegradation (Pw1). Excellent thermal and oxidation stability helps eliminate harmful deposits and extend drain intervals. **SYNCOOL FG is NSF H1 Registered and NSF/ISO 21469 Certified Food Machinery Grade.**

PGO Series: ECO-Responsible, Polyalkylene Glycol (PAG)-Based, Synthetic Gear Oils.

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 13 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. Inherently biodegradable (ASTM D-5864/OECD 301B).

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-SYNXTREME HF-32	L1020	32	-	-	10	35.4 / 8	194	520°F / 271°C	579°F / 304°C	-74°F / -59°C
BIO-SYNXTREME HF-46	L1021-	46	1	75W	20	46 / 9.8	200	594°F / 312°C	600°F / 316°C	-60°F / -51°C
BIO-SYNXTREME HF-68	L1022-	68	2	80W	20	68 / 13.7	209	550°F / 288°C	612°F / 322°C	-60°F / -51°C
*BIO-SYNXTREME HF Series Fluids are available in 5 Gallon Pails (Package Pt. No. Suffix -060) and 55 Gallon Drums (Package Pt. No. Suffix -062).										
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 Pt. No. Suffix -060) and 55 Gallon Drums (Package Pt. No. Suffix -062).										
SYNCOOL	L0964-	32/46	-	-	10	41 / 8	172	530°F / 277°C	595°F / 313°C	-40°F / -40°C
SYNCOOL FG	L0963-	46	-	-	20	41 / 10	178	530°F / 277°C	595°F / 313°C	-45°F / -43°C
*SYNCOOL & SYNCOOL FG Fluids are available in 5 Gallon Pails (Package Pt. No. Suffix -060) and 55 Gallon Drums (Package Pt. No. Suffix -062).										
PGO-150	L0845-	150	4	90	40	150 / 25	232	>536°F / >280°C	-	-53°F / -47°C
PGO-220	L0838-	220	5	90	50	227 / 42	242	>536°F / >280°C	-	-44°F / -42°C
PGO-320	L0840-	320	6	140	60	334 / 59	247	>536°F / >280°C	-	-31°F / -35°C
PGO-460	L0839-	460	7	140	-	477 / 83	262	>536°F / >280°C	-	-33°F / -36°C
PGO-680	L0846-	680	8	250	-	725 / 122	272	>536°F / >280°C	-	-27°F / -33°C
*PGO Series Fluids are available in 1 Gallon Jugs (Package Pt. No. Suffix -057), 5 Gallon Pails (Package Pt. No. Suffix -060) and 55 Gallon Drums (Package Pt. No. Suffix -062).										

ECO-Responsible Grease



VGP COMPLIANCE STATEMENT

LUBRIPLATE BIOBASED EP-2 GREASE is an Environmentally Acceptable Lubricant (EAL) according to the definitions and requirements of the US EPA 2013 Vessel General Permit, as described in VGP Section 2.2.9

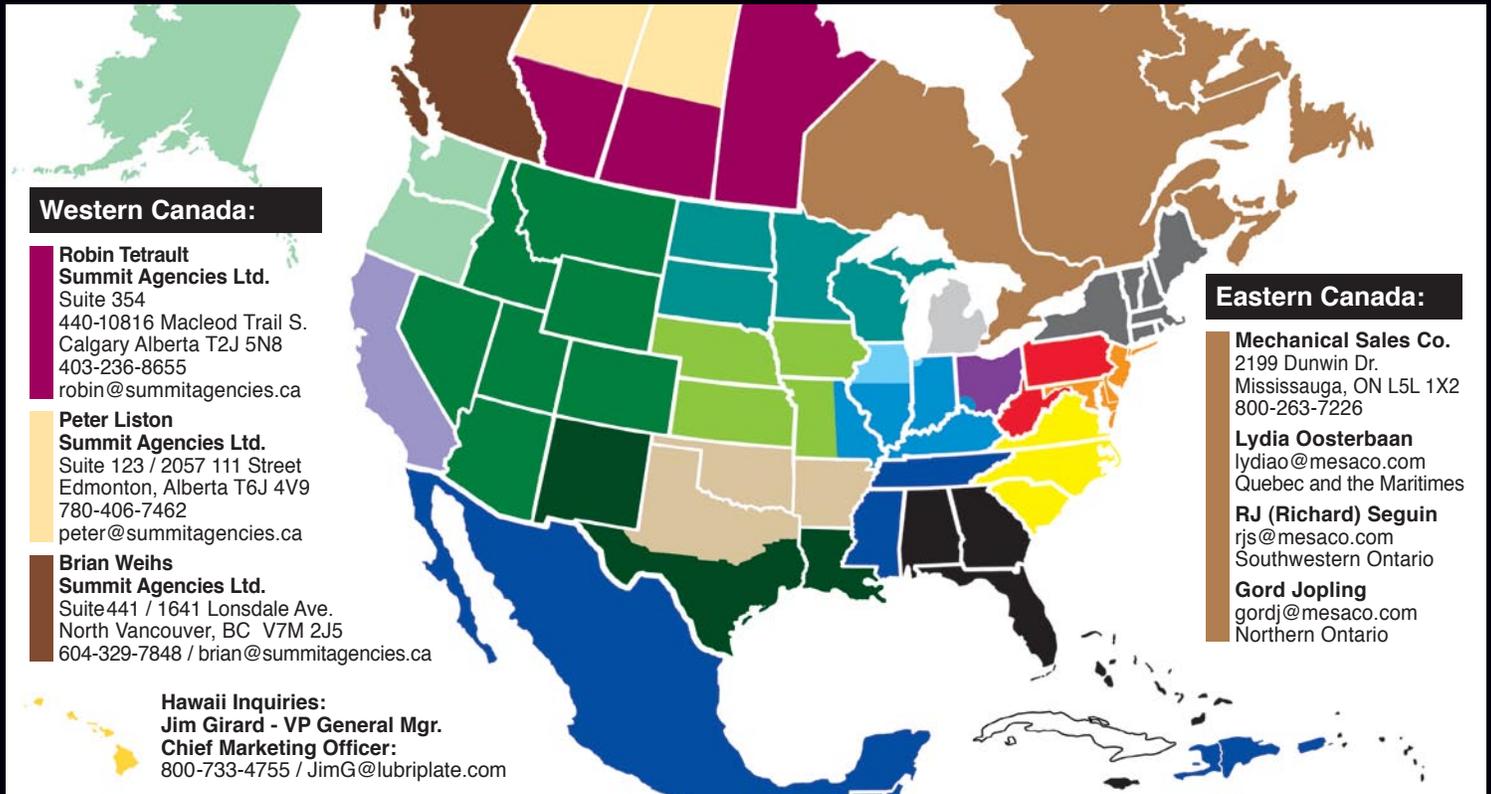
BIOBASED EP-2 Grease: Ultimately Biodegradable (Pw1), Environmentally Acceptable, Bio-based Grease.

An Environmentally Acceptable Lubricant (EAL). Meets U.S. EPA Vessel General Permit (VGP) Requirements. Passes U.S. EPA Static Sheen Test (1617). Passes U.S. EPA Acute Toxicity Test (LC50). Ultimately Biodegradable (Pw1). Excellent for slow to medium speed bearings, Articulated Tug Barges (ATB) notch interface, rudder shafts, wire rope, above deck equipment, port equipment, cranes, barges, oil platforms, water treatment and hydroelectric facilities. Excellent extreme pressure/anti-wear properties. Highly resistant to fresh and salt water.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE THICKENER	NLGI GRADE	BASE OIL TYPE	BASE OIL VIS. cSt @ 40°C	RECOMMENDED TEMPERATURE RANGE MINIMUM	RECOMMENDED TEMPERATURE RANGE MAXIMUM	ASTM DROP POINT
BIOBASED EP-2	L0341-	Lithium 12 Hydroxy Stearate	2	Vegetable Oil	100	15°F / -9°C	285°F / 196°C	385°F / 196°C

*BIOBASED EP-2 Grease is available in Cartridges (Package Pt. No. Suffix -098) and 120 lb Lined 1/4 Drums (Package Pt. No. Suffix -039).

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