



# Lubri-Topics

## Shell Exits H-1/Food Grade Lubricants Business.

Shell Lubricants announced recently to its distributors that it had agreed to sell its Global Food-Grade Lubricants' sales and marketing business to FUCHS PETROLUB AB based in Mannheim, Germany.

The acquisition is expected to close on October 1, 2010.

Obviously, this presents a fantastic opportunity for all LUBRIPLATE Distributors to win new H-1/food grade business which was formerly serviced by Shell Lubricants. We are encouraging you to use this cross reference guide to get this business. All of these LUBRIPLATE NSF/H-1 registered food grade lubricants are available at both our Toledo, OH and Newark, NJ distribution centers. Also, they are conveniently available in varied packaging. To learn more, call us at 1-800-733-4755 or 1-973-465-5700 or E-mail us at lubeXpert@lubriplate.com or info@lubriplate.com

<i>Synthetic and Semi-Synthetic Fluids</i>		<i>Synthetic and Semi-Synthetic Greases</i>	
<i>SHELL H-1</i>	<i>LUBRIPLATE H-1</i>	<i>SHELL H-1</i>	<i>LUBRIPLATE H-1</i>
Cassida Fluid CR 46*	SFGO ULTRA 46**	Cassida Grease EPS 00*	SFL-00**
Cassida Fluid GL 150*	SFGO ULTRA 150**	Cassida Grease EPS 1*	SFL-1**
Cassida Fluid GL 220*	SFGO ULTRA 220**	Cassida Grease EPS 2*	SFL-2**
Cassida Fluid GL 320*	SFGO ULTRA 320**	Cassida Grease HTS 2*	Synxtreme FG-2/220**
Cassida Fluid GL 460*	SFGO ULTRA 460**	Cassida Grease RLS 00*	SFL-00**
Cassida Fluid GL 680*	SFGO ULTRA 680**	Cassida Grease RLS 0*	SFL-0**
Cassida GLE 100**	SSO FG 100**	Cassida Grease RLS 1*	SFL-1**
Cassida GLE 150**	SSO FG 150**	Cassida Grease RLS 2*	SFL-2**
Cassida GLE 220**	SFGO ULTRA 220**	<i>Mineral Oil-Based Fluids and Oils</i>	
Cassida HF 15*	SFGO ULTRA 15**	<i>SHELL H-1</i>	<i>LUBRIPLATE H-1</i>
Cassida HF 32*	SFGO ULTRA 32**	FM Gear Oil 220	FMO 1100 AW
Cassida HF 46*	SFGO ULTRA 46**	FM Gear Oil 460	FMO 2400 AW
Cassida HF 68*	SFGO ULTRA 68**	FM Gear Oil TLS 100	Seamer Oil FG 100
Cassida Fluid RC 220*	Food Grade Cooker Oil	FM Gear Oil TLS 150	Seamer Oil FG 150
Cassida Fluid VP 100*	SFGO ULTRA 100**	FM Hydraulic Oil 32	FMO 150 AW
Cassida WG 220**	PGO FGL 220**	FM Hydraulic Oil 46	FMO 200 AW
Cassida WG 320**	PGO FGL 320**	FM Hydraulic Oil 68	FMO 350 AW
Cassida WG 460**	PGO FGL 460**	FM Hydraulic Oil 100	FMO 500 AW
Cassida WG 680**	PGO FGL 680**	<i>Mineral Oil-Based Greases</i>	
Cassida Chain Oil HT**	-	<i>SHELL H-1</i>	<i>LUBRIPLATE H-1</i>
Cassida Chain Oil*	SFGO ULTRA 150**	Grease FM 2	Pure Tac

\*Semi-Synthetic \*\*Full Synthetic

## ■ 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 Spacekraft 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).

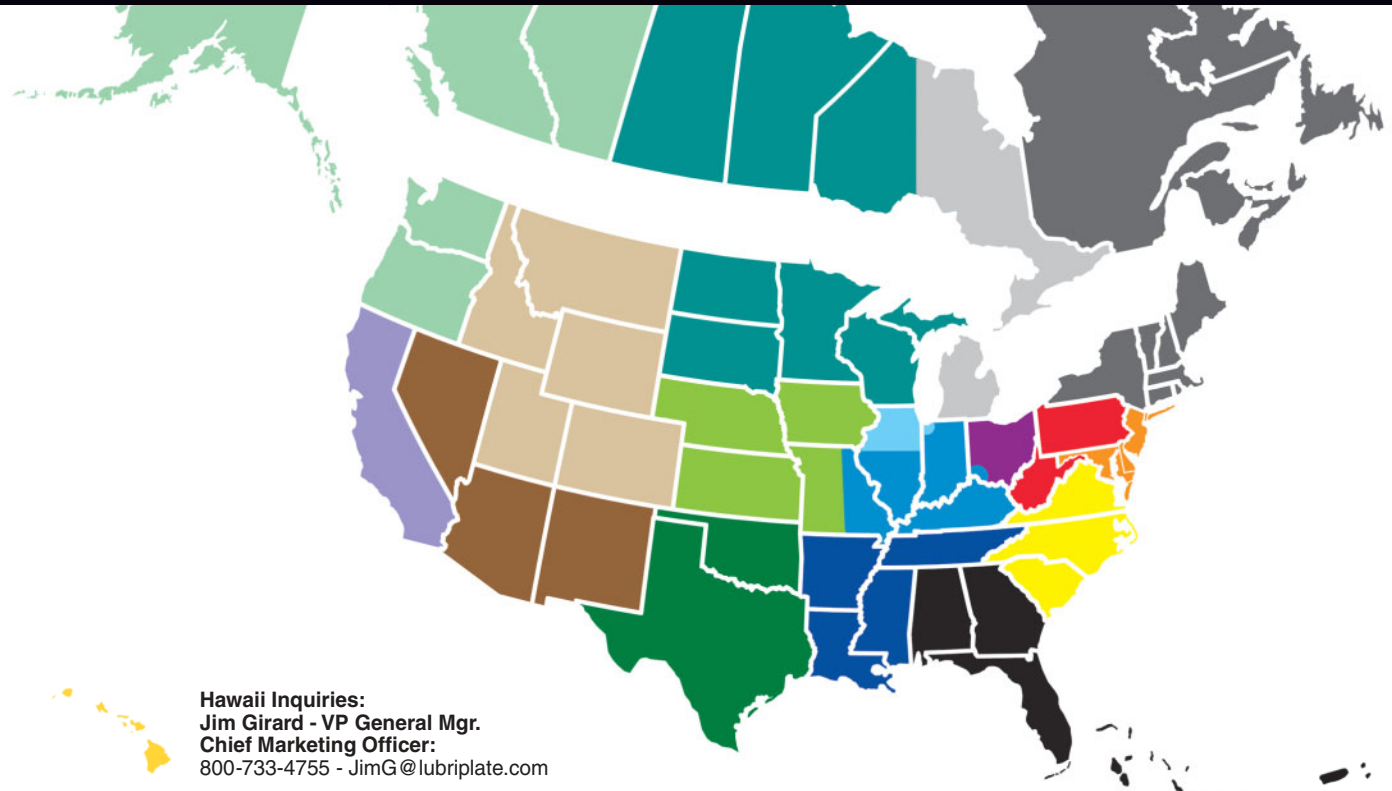
**ZF Series Hydraulic Fluids:** Heavy-Duty, Zinc-Free, Extended Life, Hydraulic Fluids.

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).

# Regional / District Managers and Specialists



**Hawaii Inquiries:**  
**Jim Girard - VP General Mgr.**  
**Chief Marketing Officer:**  
 800-733-4755 - JimG@lubriplate.com

## Western Region:      Central Region:      Eastern Region:

<p><b>Steve Paule - Regional Mgr.</b> 602-690-0458 SteveP@lubriplate.com</p> <p><b>District Managers:</b></p> <p><b>Alexander Taylor</b> 5709 Camelot Drive SW Olympia, WA 98512 360-808-0953 360-357-6216 (Fax) ataylor@lubriplate.com</p> <p><b>Dan O'Brien</b> 1359 East Skyview Drive Salt Lake City, UT 84124 801-550-0383 dobrien@lubriplate.com</p> <p><b>Francis Gondouin</b> 216 El Prado San Rafael, CA 94903 415-279-0609 fgondouin@lubriplate.com</p> <p><b>Roger Thostenson</b> 1329 Auburn Place Plano, TX 75093 972-998-0344 972-403-3801 (Fax) rthostenson@lubriplate.com</p>	<p><b>Tim Cusack - Central Regional Manager and Assistant Vice President</b> 800-733-4755 / TimC@lubriplate.com</p> <p><b>District Managers:</b></p> <p><b>Bill Outhouse</b> 5142 County Highway A Oregon, WI 53575-2708 608-835-5689 608-835-6423 (Fax) bouthouse@lubriplate.com</p> <p><b>Dennis E. King</b> 20902 West 118th Terrace Olathe, KS 66061 913-839-8444 (Office &amp; Fax) 913-424-7404 (Cell) dking@lubriplate.com</p> <p><b>Don Wrocklage</b> 2330 Winegarden Court Ballwin, MO 63011 636-458-0094 636-458-7549 (Fax) dwrocklage@lubriplate.com</p> <p><b>Nick Guerrero</b> 973-934-1929 nguerrero@lubriplate.com States Covered: TN.; AR.; LA.; MS.</p> <p><b>Chris Franzoni</b> 21653 Kendyl Court Macomb, MI 48044 586-530-6922 (Cell) cfranzoni@lubriplate.com</p> <p><b>Scott Besedick</b> 1219 Elliston Court Crown Point, IN 46307 219-661-8712 219 661-9069 (Fax) sbesedick@lubriplate.com</p> <p><b>Kim Henricks</b> 414 Winter St. Elmore, OH 43416 419-862-7603 419-862-7903 (Fax) khenricks@lubriplate.com</p>	<p><b>Dick Schettino - Eastern Regional Manager</b> 800-733-4755 DickS@lubriplate.com</p> <p><b>District Managers:</b></p> <p><b>Michael Barto</b> 44 North Cope Hill Drive Lititz, PA 17543 717-665-0424 717-665-0425 (Fax) mbarto@lubriplate.com</p> <p><b>David Reh</b> 142 Andrew Street Hamilton, NJ 08610 609-278-5876 dreh@lubriplate.com</p> <p><b>Robert A. Reh Jr.</b> 5312 Meadow Chase Rd. Midlothian, VA 23112 864-270-8558 (Cell) rrehjr@lubriplate.com</p> <p><b>Lee Myers</b> PMB 290 / 3948 S. Third St. Jacksonville Bch., FL 32250 904-221-0557 904-221-1025 (Fax) lmyers@lubriplate.com</p> <p><b>Jim Zappulla</b> 176 Tobacco Street Lebanon, CT 06249 860-450-0222 jzappulla@lubriplate.com</p>
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## Specialists:

<p><b>Vice President &amp; Gen Mgr. International Inquiries:</b>  <b>Chief Marketing Officer:</b>  <b>Jim Girard</b> - 800-733-4755          JimG@lubriplate.com</p> <p><b>Sales &amp; Technical Assistant to Chief Marketing Officer:</b>  <b>Vera Tehayel</b> - 973-589-9150          VeraT@lubriplate.com</p>	<p><b>Assistant Vice President Domestic Sales &amp; Service Inquiries:</b>  <b>Tim Cusack</b> - 800-733-4755          TimC@lubriplate.com</p> <p><b>Toledo Sales Director:</b>  <b>Mike Kontak</b> -          419-691-2491          MikeK@lubriplate.com</p>	<p><b>Vice President, Sales:</b>  <b>Steve Morrow</b> -          Office: 1-973-589-9150          Cell: 1-973-722-6516          SMorrow@lubriplate.com</p> <p><b>Quality Manager:</b>  <b>Jacki Dusza</b> -          419-691-2491          JackiD@lubriplate.com</p>	<p><b>Corporate Director of Technology:</b>  <b>Sib Hamid</b> -          419-691-2491          SHamid@lubriplate.com</p> <p><b>Director of Information Technology:</b>  <b>Dan Moroses</b> - 973-465-5737          DanM@lubriplate.com</p>
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### Lubriplate Lubricants Company

129 LOCKWOOD STREET / NEWARK, NJ 07105 / PHONE 800-733-4755 / FAX 800-347-5329  
 TOLEDO, OH OFFICE / PHONE 419-691-2491 / FAX 800-347-5348