Heavy-Duty Lubricants
For Quarry and Mining Equipment

Synthetic and Petroleum-Based
Heavy-Duty Multi-Purpose Greases

Heavy-Duty Gear Oils

Open Gear Greases

Heavy-Duty Hydraulic Oils

Specialty Lubricants

Spray Lubricants

Motor Oils and Transmission Fluids

Environmentally Resposible
ECO-Friendly Lubricants

Perma Automatic
Lubricators
Dear Customer;

Thank you for your interest in Lubriplate Lubricants. For 142 years, our company has manufactured and sold only the highest quality lubricants to all types of industry. This selection of heavy-duty, high-performance lubricants has been formulated to provide outstanding performance even in the most demanding heavy quarry/mining environments. At Lubriplate we are committed to developing, manufacturing quality lubricants that meet and exceed your expectations. We back up our products with a wide range of complimentary services which includes; equipment surveys, a toll free technical hotline and e-mail, color coded equipment tags, maintenance software, follow-up lubricant analysis and a wide range of training programs. We appreciate your consideration of Lubriplate Lubricants. We realize that we must constantly work to earn and maintain your trust.

Sincerely,

Richard T. McCluskey
President and Chief Executive Officer
e-mail: RichardM@lubriplate.com

All Lubriplate Lubricants are manufactured under strict ISO 9001 registered quality assurance standards.

Complimentary Value Added Services Offered

**Toll Free Technical Support Hotline and E-mail**
Call our technical service center toll free at 800-347-5343 or 800-733-4755 for answers to your lubrication questions by phone, or e-mail your questions to LubeXpert@lubriplate.com or contact your nearest Lubriplate district manager or your local distributor representative for complete technical support.

**Complete Equipment Surveys and Lubricant Inventory Consolidation**
Complete equipment surveys by our professional staff of lubrication engineers are also available to determine your exact lubricant requirements and identify opportunities for lubricant inventory consolidation.

**Customized, Color Coded, Lubricant Specification Equipment Tags**
Customized to meet your needs, these color coded equipment tags help prevent lubricant misapplication and ensure that the proper lubricant is used when servicing a particular piece of equipment. Based on a complete equipment survey, tags can be provided for each piece of equipment.

**Lubrication Maintenance Software**
Lubriplate offers a PC based computer software program that puts your entire lubrication and maintenance schedules at your fingertips. This service is based on a complete survey of equipment. Contact Dan Moroses for details at 973-589-9150.

**No-Charge Oil / Fluid and Grease Analysis**
Our Oil/Fluid and Grease Analysis Program that is offered at no-charge on all Lubriplate products. Tests that are performed include: Viscosity, Acidity, Contamination (% sediment and % moisture,) Spectrochemical (PPM of wear metals and additives) ISO Cleanliness (optional). An interpretation of the results is included along with suggested actions to take.

**Lubrication Training Programs**
We offer training programs tailored to fit your needs. These educational training sessions focus on all facets of equipment lubrication and are not a sales presentation. Seminars are graphically presented with overheads, and other support material. Available on-site at your facility or in a local conference room. Contact us at 800-733-4755 for more information.
**SYN-3001 & SYN-3002:**

100% Synthetic, Polyalphaolefin (PAO)-Based, Moly-Fortified, Heavy-Duty Greases.

These high performance, heavy-duty, moly-fortified, 100% synthetic greases provide superior oxidation resistance for long lasting protection from friction, wear and corrosion. They have excellent high and low temperature performance and are highly resistant to water. Contains 5% Moly. Recommended for all types of heavy equipment.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>*PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VIS. cSt / SUS @ 40˚C / 100˚F</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID. ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYN-3001</td>
<td>L0315-</td>
<td>1</td>
<td>218 / 1009</td>
<td>310 / 340</td>
<td>500˚F / 260˚C</td>
<td>-40˚F / -40˚C to 400˚F / 204˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>SYN-3002</td>
<td>L0316-</td>
<td>2</td>
<td>446 / 2066</td>
<td>265 / 295</td>
<td>500˚F / 260˚C</td>
<td>-30˚F / -34˚C to 400˚F / 204˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*SYN-3001 & SYN-3002 Greases are available in Cartridges, Pails, 1/4 Drums & Drums. See page 7 for more information and package part number suffix.

**No. 3000 and 3000-W:**

Petroleum Based, Tacky, Moly-Lithium Type, Extreme Pressure Greases.

Provides a durable, tenacious, adhesive film to protect against water, rust, and corrosive contaminants. Fortified with molybdenum disulfide for extreme pressure applications. 3000-W is for cold ambient temperatures. Recommended for all types of heavy equipment.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>*PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VIS. cSt / SUS @ 40˚C / 100˚F</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID. ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000-W</td>
<td>L0107-</td>
<td>1</td>
<td>60 / 315</td>
<td>310 / 340</td>
<td>375˚F / 191˚C</td>
<td>-30˚F / -34˚C to 275˚F / 135˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*3000 Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See page 7 for more information and package part number suffix.

**LTR-2: “The Red Grease”**

Heavy-Duty, Tacky, Red, Lithium Complex Grease.

This rugged, tacky, highly water resistant, extreme pressure grease can withstand higher temperatures than traditional lithium greases. It is recommended for a wide variety of heavy-duty industrial, construction, quarry, aggregate and mining applications. Red in color.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>*PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VIS. cSt / SUS @ 40˚C / 100˚F</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID. ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTR-2</td>
<td>L0167-</td>
<td>2</td>
<td>460 / -</td>
<td>265 / 295</td>
<td>505˚F / 263˚C</td>
<td>5˚F / -15˚C to 400˚F / 204˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*LTR-2 is available in Cartridges, Pails, 1/4 Drums and Drums. See page 7 for more information and package part number suffix.

**No. 1444:**

Tacky, Aluminum Complex Type Grease.

Specifically formulated for heavy-duty quarry and mining equipment. Excellent for slow to moderate speed bearings and chains that are subjected to heat, steam and water.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>*PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VIS. cSt / SUS @ 40˚C / 100˚F</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID. ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1444</td>
<td>L0227-</td>
<td>2</td>
<td>626 / 3300</td>
<td>265 / 295</td>
<td>500˚F / 260˚C</td>
<td>20˚F / -7˚C to 400˚F / 204˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*No. 1444 is available in Cartridges, Pails, 1/4 Drums, Drums & Perma Lubricators. See page 7 for more information and package part number suffix.

**1240 Series:**

Lithium-Polymer Type, Viscous, Non-corrosive, Extreme Pressure Greases.

Highly water resistant and tacky, they are designed for applications where the grease is subjected to heavy pressure and shock loads. This series is available in 3 NLGI densities for a wide range of applications and temperatures.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>*PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VIS. cSt / SUS @ 40˚C / 100˚F</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID. ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1240</td>
<td>L0105-</td>
<td>0</td>
<td>237 / 1250</td>
<td>355 / 385</td>
<td>400˚F / 204˚C</td>
<td>5˚F / -15˚C to 280˚F / 138˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>1241</td>
<td>L0104-</td>
<td>1</td>
<td>237 / 1250</td>
<td>310 / 340</td>
<td>400˚F / 204˚C</td>
<td>5˚F / -15˚C to 290˚F / 143˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*1240 Series Greases are available in Cartridges, Pails, 1/4 Drums, Drums and Perma Lubricators. See page 7 for more information and package part number suffix.

**EM-Plex EP-1:**

Adhesive, Moly-Fortified, Heavy-Duty Grease.

Specifically formulated for heavy-duty mining equipment. Provides a long-lasting protective film. Contains 5% Moly - provides compliance with major heavy equipment manufacturers' specifications. High dropping point. Provides enhanced thermal stability.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>*PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VIS. cSt / SUS @ 40˚C / 100˚F</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID. ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
</table>

*EM-Plex EP-1 is available in Pails, 1/4 Drums & Drums. See page 7 for more information and package part number suffix.*
**APG Series:**

These heavy-duty, extreme pressure oils were developed to meet gear oil needs of most automotive, truck, heavy equipment and industrial gearboxes requiring an extreme pressure type oil. Meets military specification MIL-PRF-2105E and MIL-L-2105D and API categories GL-3, GL-4, GL-5, MT-1.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>PRODUCT PART NO.</th>
<th>ISO GRADE</th>
<th>AGMA NO.</th>
<th>SAE GEAR OIL NO.</th>
<th>SAE NO.</th>
<th>VISCOSITY cSt @ 40˚C</th>
<th>VISCOSITY SUS @ 100˚F</th>
<th>VISCOSITY INDEX</th>
<th>FLASH POINT</th>
<th>FIRE POINT</th>
<th>POUR POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>APG-75</td>
<td>L0116-</td>
<td>32</td>
<td>-</td>
<td>75W</td>
<td>10W</td>
<td>31 / 6</td>
<td>152 / 44</td>
<td>113</td>
<td>350˚F / 177˚C</td>
<td>365˚F / 185˚C</td>
<td>-55˚F / -48˚C</td>
</tr>
<tr>
<td>APG 80W-90</td>
<td>L0030-</td>
<td>100</td>
<td>3 EP</td>
<td>80W-90</td>
<td>40</td>
<td>124 / 15</td>
<td>650 / 84</td>
<td>121</td>
<td>380˚F / 193˚C</td>
<td>410˚F / 210˚C</td>
<td>-35˚F / -37˚C</td>
</tr>
<tr>
<td>APG-90</td>
<td>L0118-</td>
<td>150</td>
<td>5 EP</td>
<td>90</td>
<td>50</td>
<td>156 / 16</td>
<td>816 / 86</td>
<td>112</td>
<td>395˚F / 202˚C</td>
<td>440˚F / 227˚C</td>
<td>-20˚F / -29˚C</td>
</tr>
<tr>
<td>APG-140</td>
<td>L0119-</td>
<td>460</td>
<td>7 EP</td>
<td>85W-140</td>
<td>70</td>
<td>410 / 31</td>
<td>2220 / 152</td>
<td>107</td>
<td>405˚F / 207˚C</td>
<td>440˚F / 227˚C</td>
<td>0˚F / -18˚C</td>
</tr>
</tbody>
</table>

*APG Series Gear Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 7 for more information and package part number suffix.

**Fiske’s Kling Gear Oils:** *“The Red Gear Oil”*


These Heavy-duty, tacky, oils cling tenaciously to gear teeth. Formulated for heavy service and fortified with extreme pressure additives, these oils help minimize wear and prolong gear life. For heavy-duty gear applications, rear end differentials and recirculating systems. They provide excellent rust and oxidation protection. Red color helps with leak detection. They meet MIL-L-2105C specifications and conform to API classification GL-5.

<table>
<thead>
<tr>
<th>FISKE’S KLING GEAR</th>
<th>*PRODUCT PART NO.</th>
<th>ISO GRADE</th>
<th>AGMA NO.</th>
<th>SAE GEAR OIL NO.</th>
<th>SAE NO.</th>
<th>VISCOSITY cSt @ 40˚C</th>
<th>VISCOSITY SUS @ 100˚F</th>
<th>VISCOSITY INDEX</th>
<th>FLASH POINT</th>
<th>FIRE POINT</th>
<th>POUR POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>KG 80W-90</td>
<td>F0162-</td>
<td>150</td>
<td>5 EP</td>
<td>80W-90</td>
<td>40</td>
<td>816 / 89</td>
<td>114</td>
<td>410˚F / 210˚C</td>
<td>460˚F / 238˚C</td>
<td>-25˚F / -32˚C</td>
<td></td>
</tr>
<tr>
<td>KG 85W-140</td>
<td>F0163-</td>
<td>460</td>
<td>7 EP</td>
<td>85W-140</td>
<td>60</td>
<td>1866 / 140</td>
<td>107</td>
<td>390˚F / 199˚C</td>
<td>435˚F / 224˚C</td>
<td>-10˚F / -23˚C</td>
<td></td>
</tr>
</tbody>
</table>

*Fiske’s Kling Gear Oils are available in Pails, 1/4 Drums & Drums. See page 7 for more information and package part number suffix.

**Open Gear Greases**

**Gear Shield Extra Heavy:**

Multi-Purpose, Lithium-Based, Open Gear Grease.

Made for all types of open/exposed gears. Gear Shield Extra Heavy is a thick, tacky and adhesive open gear grease for adverse conditions. Excellent fifth wheel lubricant.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VISC. cSt / SUS @ 40˚C</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear Shield X Hvy</td>
<td>L0152-</td>
<td>2.5</td>
<td>432 / 2000</td>
<td>234 / 260</td>
<td>370˚F / 188˚C</td>
<td>20˚F / -7˚C to 275˚F / 135˚C</td>
<td>AW</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*Gear Shield Extra Heavy is available in Caulk Type Cartridges, Spray Cans, Pails, 1/4 Drums, Drums & Perma Lubricators. See page 7 for more information and package part number suffix.

**No. 176:**


This adhesive, semi-fluid grease is for all types of open gears lubricated by centralized systems. Provides good pumpability without the use of harmful solvents.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VISC. cSt / SUS @ 40˚C</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 176</td>
<td>L0054-</td>
<td>0</td>
<td>313 / 1650</td>
<td>00</td>
<td>Non-Melt</td>
<td>25˚F / -4˚C to 275˚F / 135˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*No. 176 is available in Pails, 1/4 Drums, Drums & Permas. See page 7 for more information and package part number suffix.

**EM-Guard EP-0:**


This soft, tacky, NLGI No. 0 density grease is designed for open gears lubricated by centralized lubrication systems. Provides excellent thermal stability. No solvents in formulation. Non-melting. Provides enhanced protection for gear faces.

<table>
<thead>
<tr>
<th>LUBRIPLATE PRODUCT</th>
<th>PRODUCT PART NO.</th>
<th>NLGI GRADE</th>
<th>OIL VISC. cSt / SUS @ 40˚C</th>
<th>WORKED PENETRATION</th>
<th>ASTM DROP POINT</th>
<th>RECOMMENDED OPERATING TEMPERATURE RANGE</th>
<th>AW/EP</th>
<th>RUST/OXID ADDITIVES</th>
<th>WATER RESISTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM-Guard EP-0</td>
<td>L0146-</td>
<td>0</td>
<td>313 / 1650</td>
<td>00</td>
<td>Non-Melt</td>
<td>25˚F / -4˚C to 275˚F / 135˚C</td>
<td>AW/EP</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

*EM-Guard EP-0 is available in Pails, 1/4 Drums and Drums. See page 7 for more information and package part number suffix.
Heavy-Duty Hydraulic Oils

**Fiske's AW Series:** Heavy-Duty, Anti-Wear Fortified Hydraulic Oils.

These high performance, anti-wear fortified oils are formulated for all types of hydraulic and recirculating systems found on industrial and construction equipment. They are fortified with rust and oxidation inhibitors. The anti-wear additive package helps minimize the formation of sludge and other corrosive by-products. High aniline points help prolong seal life. Meets Cincinnati Milacron and Vickers specifications.

<table>
<thead>
<tr>
<th>FISKE'S AW SERIES</th>
<th>PRODUCT PART NO.</th>
<th>ISO GRADE</th>
<th>AGMA NO.</th>
<th>SAE GEAR OIL NO.</th>
<th>SAE NO.</th>
<th>VISCOSITY CST @40˚C</th>
<th>VISCOSITY SUS @100˚F / 210˚F</th>
<th>VISCOSITY INDEX</th>
<th>FLASH POINT</th>
<th>FIRE POINT</th>
<th>POUR POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-46</td>
<td>F0401-</td>
<td>46</td>
<td>1</td>
<td>75</td>
<td>20</td>
<td>213 / 48</td>
<td>99</td>
<td>410˚F / 210˚C</td>
<td>450˚F / 232˚C</td>
<td>-20˚F / -29˚C</td>
<td></td>
</tr>
<tr>
<td>AW-68</td>
<td>F0402-</td>
<td>68</td>
<td>2</td>
<td>80</td>
<td>20</td>
<td>314 / 54</td>
<td>103</td>
<td>430˚F / 221˚C</td>
<td>470˚F / 243˚C</td>
<td>-10˚F / -23˚C</td>
<td></td>
</tr>
</tbody>
</table>

*Fiske's AW Series Oils are available in Pails & Drums. See page 7 for more information and package part number suffix.

**Specialty Lubricants**

**Power Hammer & Chisel Grease:**
This Heavy-Duty, extreme pressure type, aluminum complex grease with moly, copper and graphite, is made for use on most types of heavy-duty power hammers. Greatly extends shaft and bushing life. Product Part No. L0190-. Available in cartridges and pails. See packaging section on page 7 for package part number suffix.

**Rock Drill Oils 10R, 30R:**
For all types of rock drills, air hammers and other pneumatic tools. Available in SAE 10W, Part No. L0847-, and 30, Part No. L0848-, with the lighter weight oil for cold weather conditions. Use SPO-255 for SAE 50 rock drill oil. Available in jugs, pails, 1/4 drums and drums. See packaging section on page 7 for more information and package part number suffix.

**Chain & Cable Fluid / Chain & Cable Heavy:**
Superior penetrating oils that clean and lubricate without gumming. Ideal for wire rope, chains, cables, hinges, springs, slides and other moving metal parts. Protects bright work. Excellent oils to loosen rusty nuts and bolts. Ideal for tapping and drilling. Part Nos. L0135- and L0136-. Available in jugs, pails, 1/4 drums and drums.

**Heavy-Duty Spray Lubricants**

**Chain & Cable Fluid - Penetrating Oil:** A superior, cleansing, non-gumming penetrating oil for wire rope, chains, cables and general lubrication. Prevents rust and corrosion and protects brightwork. Loosens rusty nuts and bolts. Excellent drilling, tapping, and sawing oil. 11 OZ. / 311.8 g. spray can. Part No. L0135-063.

**Gear Shield Extra Heavy:** Developed for easy lubrication of open gears. A tough, tacky grease. Excellent for fifth wheel applications. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0152-063.

**Heavy-Duty Motor Oils / Transmission Fluids**

**Super GPO Heavy-Duty Motor Oils:**

**DEXRON III / MERCON Automatic Transmission Fluid:**
Recommended and approved for all General Motors, Chrysler, and Ford (1989 and Newer) or anywhere Dexron and Ford Mercon Fluids are specified. Product Part No. L0867-.

**Hydraulic-Transmission Fluid Type UTF:**
For heavy-duty equipment where UTF type fluids are required. Pt. No. L0873-.
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.

### 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).

<table>
<thead>
<tr>
<th>Terminology</th>
<th>Test Method</th>
<th>Requirements / Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate Biodegradation (Pw1)</td>
<td>ASTM D-5864</td>
<td>Minimum 60% converted to CO in 28 days or less</td>
</tr>
<tr>
<td>Readily Biodegradable (Pw1)</td>
<td>OECD 301B</td>
<td>Minimum 60% converted to CO in 28 days or less</td>
</tr>
<tr>
<td>Inherently Biodegradable (Pw2) (Pw3) (Pw4)</td>
<td>ASTM D-5864 or OECD 301B</td>
<td>Min. 60% (Pw2), 40% (Pw3), 20-39% (Pw4) converted to CO2 in 84 days</td>
</tr>
<tr>
<td>Non/Low Acute Toxicity LC-50</td>
<td>US EPA LC-50</td>
<td>Pass</td>
</tr>
</tbody>
</table>

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

*Bio-Based Series Hydraulic Oils are available in Pails and Drums. See page 7 for more information and package part number suffix.

### 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.

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

*Marine-Safe 32 through 68 is available in 5 Gallon Pails and 55 Gallon Drums. See page 7 for more information and package part number suffix.

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

An ultimately biodegradable (Pw1), vegetable-based fluid, designed for use in heavy-duty 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.

<table>
<thead>
<tr>
<th><strong>LUBRIPLATE PRODUCT</strong></th>
<th><strong>PRODUCT</strong></th>
<th><strong>ISO GRADE</strong></th>
<th><strong>AGMA NO.</strong></th>
<th><strong>SAE GEAR OIL NO.</strong></th>
<th><strong>SAE NO.</strong></th>
<th><strong>VISCOSITY CST @40˚C / 100˚C</strong></th>
<th><strong>VISCOSITY INDEX</strong></th>
<th><strong>FLASH POINT</strong></th>
<th><strong>FIRE POINT</strong></th>
<th><strong>POUR POINT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>UTF-BIO-BASED/GREEN</td>
<td>L1072-</td>
<td>46</td>
<td>1</td>
<td>75W</td>
<td>20</td>
<td>48 / 10</td>
<td>210</td>
<td>484˚F / 251˚C</td>
<td>-</td>
<td>-38˚F / -39˚C</td>
</tr>
</tbody>
</table>

*UTF-Bio-Based/Green is available in 5 Gallon Pails and 55 Gallon Drums. See page 7 for more information and package part number suffix.

### 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. and in 14 OZ. / 414 ml. non-aerosol, hand pump, spray bottle. Part No. L0721-067.
The chart below indicates Lubriplate’s packaging availability and the corresponding Package Part Number Suffix.

**Lubriplate Oils and Fluids are not available in Perma PRO Series Lubricators.**

Not all products are available in every package size.

See package availability for each product at the bottom of the product specification charts.

### Perma Automatic Lubricators Pre-Filled with Lubriplate Lubricants

Perma automatic lubricators provide clean, safe, reliable and consistent equipment lubrication around the clock. They are fully programmable and deliver the right amount of lubricant consistently, day after day, week after week. A wide range of types and sizes are available to meet your exact needs. All come pre-filled, ready to install.

Only select products are available in Perma Lubricators. Check the bottom of chart for product availability.

**Part Numbers** - Add the desired Package Part Number Suffix, shown here, to the end of the Product Part Number. Product Part Numbers can be found on the product specification charts found on the previous pages.

---

### Product / Package Part No. Suffix

<table>
<thead>
<tr>
<th>PRODUCT / PACKAGE PART NO. SUFFIX</th>
<th>CARTRIDGES** 1/4 lt/111 g 40 CT.CASE</th>
<th>JUL 1 GAL / 3.79 L</th>
<th>PAIL 35 L / 5.9 kg</th>
<th>OTR. DRUM 120 L / 54 kg</th>
<th>FULL DRUMS 400 L / 110 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grease Products*</td>
<td>-098</td>
<td>-</td>
<td>-035</td>
<td>-039</td>
<td>-040</td>
</tr>
<tr>
<td>Gear Oils*</td>
<td>-</td>
<td>-007</td>
<td>-035</td>
<td>-039</td>
<td>-040</td>
</tr>
<tr>
<td>Hydraulic Oils / Fluids</td>
<td>-</td>
<td>-057</td>
<td>-060</td>
<td>-061</td>
<td>-062</td>
</tr>
<tr>
<td>Specialty Oils / Fluids</td>
<td></td>
<td>-057</td>
<td>-060</td>
<td>-061</td>
<td>-062</td>
</tr>
</tbody>
</table>

### Spray Lubricants

See product description for packaging information on spray lubricants.

---

### Perma Model

<table>
<thead>
<tr>
<th>CLASSIC</th>
<th>VOLUME SIZE</th>
<th>OUTPUT RATE</th>
<th>PRESSURE BUILD-UP</th>
<th>FEATURES / DETAILS</th>
<th>PERMA PACKAGE PART No. SLFFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 cc</td>
<td>1 Month</td>
<td>65 PSI</td>
<td></td>
<td>Metal Housing</td>
<td>-101</td>
</tr>
<tr>
<td>120 cc</td>
<td>3 Month</td>
<td>65 PSI</td>
<td></td>
<td>Metal Housing</td>
<td>-103</td>
</tr>
<tr>
<td>120 cc</td>
<td>6 Month</td>
<td>65 PSI</td>
<td></td>
<td>Metal Housing</td>
<td>-106</td>
</tr>
<tr>
<td>120 cc</td>
<td>12 Month</td>
<td>65 PSI</td>
<td></td>
<td>Metal Housing</td>
<td>-112</td>
</tr>
<tr>
<td>120 cc</td>
<td>1 Month</td>
<td>65 PSI</td>
<td></td>
<td>Metal Housing, For Cold Temperature Applications</td>
<td>-301</td>
</tr>
<tr>
<td>120 cc</td>
<td>3 Month</td>
<td>65 PSI</td>
<td></td>
<td>Metal Housing, For Cold Temperature Applications</td>
<td>-303</td>
</tr>
<tr>
<td>120 cc</td>
<td>6 Month</td>
<td>65 PSI</td>
<td></td>
<td>Transparent Plastic Housing</td>
<td>-201</td>
</tr>
<tr>
<td>120 cc</td>
<td>12 Month</td>
<td>65 PSI</td>
<td></td>
<td>Transparent Plastic Housing</td>
<td>-203</td>
</tr>
<tr>
<td>120 cc</td>
<td>1 Month</td>
<td>65 PSI</td>
<td></td>
<td>Transparent Plastic Housing</td>
<td>-206</td>
</tr>
<tr>
<td>120 cc</td>
<td>12 Month</td>
<td>65 PSI</td>
<td></td>
<td>Transparent Plastic Housing</td>
<td>-212</td>
</tr>
</tbody>
</table>

### NOVA LC REFILL KIT

<table>
<thead>
<tr>
<th>NOVA LC REFILL KIT</th>
<th>VOLUME SIZE</th>
<th>OUTPUT RATE</th>
<th>PRESSURE BUILD-UP</th>
<th>FEATURES / DETAILS</th>
<th>PERMA PACKAGE PART No. SLFFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 cc</td>
<td>Programmable Electronic Unit</td>
<td>90 PSI</td>
<td>LCD Display, Integrated Temperature Compensation</td>
<td>Refill Kit - Includes Pre-Filled NOVA LC Unit</td>
<td>-130</td>
</tr>
</tbody>
</table>

### STAR VARIO

<table>
<thead>
<tr>
<th>STAR VARIO</th>
<th>VOLUME SIZE</th>
<th>OUTPUT RATE</th>
<th>PRESSURE BUILD-UP</th>
<th>FEATURES / DETAILS</th>
<th>PERMA PACKAGE PART No. SLFFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 cc</td>
<td>1, 3, 6, 12 Mo. Programmable</td>
<td>75 PSI</td>
<td>Battery Operated</td>
<td>Refill Kit - Includes Pre-Filled LC Unit - Battery Pack</td>
<td>-60</td>
</tr>
<tr>
<td>120 cc</td>
<td>1, 3, 6, 12 Mo. Programmable</td>
<td>75 PSI</td>
<td>Battery Operated</td>
<td>Refill Kit - Includes Pre-Filled LC Unit - Battery Pack</td>
<td>-612</td>
</tr>
</tbody>
</table>

### NOVA REFILL KIT

<table>
<thead>
<tr>
<th>NOVA REFILL KIT</th>
<th>VOLUME SIZE</th>
<th>OUTPUT RATE</th>
<th>PRESSURE BUILD-UP</th>
<th>FEATURES / DETAILS</th>
<th>PERMA PACKAGE PART No. SLFFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 cc</td>
<td>1, 3, 6, 12 Mo. Programmable</td>
<td>75 PSI</td>
<td>Battery Operated</td>
<td>Refill Kit - Includes Pre-Filled LC Unit - Battery Pack</td>
<td>-60</td>
</tr>
<tr>
<td>120 cc</td>
<td>1, 3, 6, 12 Mo. Programmable</td>
<td>75 PSI</td>
<td>Battery Operated</td>
<td>Refill Kit - Includes Pre-Filled LC Unit - Battery Pack</td>
<td>-612</td>
</tr>
</tbody>
</table>

### PRO

<table>
<thead>
<tr>
<th>PRO</th>
<th>VOLUME SIZE</th>
<th>OUTPUT RATE</th>
<th>PRESSURE BUILD-UP</th>
<th>FEATURES / DETAILS</th>
<th>PERMA PACKAGE PART No. SLFFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 cc</td>
<td>1 Day to 24 Mo. Programmable</td>
<td>360 PSI</td>
<td>Battery Operated</td>
<td>Refill Kit - Includes Pre-Filled LV Unit - Battery Pack</td>
<td>-725</td>
</tr>
</tbody>
</table>

### SYN-3001

<table>
<thead>
<tr>
<th>SYN-3001</th>
<th>VOLUME SIZE</th>
<th>OUTPUT RATE</th>
<th>PRESSURE BUILD-UP</th>
<th>FEATURES / DETAILS</th>
<th>PERMA PACKAGE PART No. SLFFIX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### LUBRIPLATE HEAVY-DUTY LUBRICANTS AVAILABLE IN PERMA LUBRICATORS

District Managers and Specialists

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

**District Managers:**

**Western Canada:** Robin Tetrault
Summit Agencies Ltd.
Suite 554 / 140-10816 Macleod Trail S.
Calgary Alberta T2J 5N8
403-236-8655
robin@summitagencies.ca

**Western Canada:** Peter Liston
Summit Agencies Ltd.
Suite 76 / 11215 Jasper Ave.
Edmonton, Alberta T5 G 0J
780-406-7482
peter@summitagencies.ca

Eastern Region:

- **Michael Barto**
  44 North Cope Hill Drive
  Lititz, PA 17543
  717-665-0424
  717-665-0425 (Fax)
  mbarto@lubriplate.com

- **Jim Zappulla**
  176 Tobacco Street
  Lebanon, CT 06249
  860-450-0222
  jzappulla@lubriplate.com

Central Region:

- **Bill Outhouse**
  5142 County Highway A
  Oregon, WI 53575-2708
  608-835-5689
  608-835-6423 (Fax)
  bouthouse@lubriplate.com

- **Dennis E. King**
  20902 West 118th Terrace
  Olathe, KS 66061
  913-839-8444 (Office & Fax)
  913-424-7404 (Cell)
  dking@lubriplate.com

- **Don Wrocklage**
  2330 Winegarden Court
  Ballwin, MO 63011
  636-458-0094
  636-458-7549 (Fax)
  dwrocklage@lubriplate.com

- **Chris Franzoni**
  21653 Kendyl Court
  Macomb, MI 48044
  586-530-6822 (Cell)
  cfranzoni@lubriplate.com

- **Scott Besedick**
  1219 Elliston Court
  Crown Point, IN 46307
  219-661-8712
  219 661-9069 (Fax)
  sbesedick@lubriplate.com

- **Kim Henricks**
  414 Winter St.
  Elmore, OH 43416
  419-862-7603
  419-862-7903 (Fax)
  khenricks@lubriplate.com

**Western Region:**

- **Steve Paule**
  602-690-0458
  SteveP@lubriplate.com

- **Alexander Taylor**
  5709 Camelot Drive SW
  Olympia, WA 98512
  360-808-0353
  360-357-6216 (Fax)
  ataylor@lubriplate.com

- **Francis Gondouin**
  216 El Prado
  San Rafael, CA 94903
  415-279-0699
  fgondouin@lubriplate.com

- **Roger Thostenson**
  1329 Auburn Place
  Plano, TX 75093
  972-998-0343 / 972-403-3801 (Fax)
  rthostenson@lubriplate.com

- **Les Myers**
  PMB 290 / 3948 S. Third St.
  Jacksonville Bch., FL 32250
  904-221-0557 / 904-221-1025 (Fax)
  lmyers@lubriplate.com

**Specialists:**

- **Vice President & Gen Mgr. International Inquiries:**
  Jim Girard - 800-733-4755
  JimG@lubriplate.com

- **Sales & Technical Assistant to Chief Marketing Officer:**
  Vera Tehayel - 973-589-9150
  VeraT@lubriplate.com

- **Assistant Vice President Domestic Sales & Service Inquiries:**
  Tim Cusack - 800-733-4755
  TimC@lubriplate.com

- **Toledo Sales Director:**
  Mike Kontak - 419-691-2491
  MikeK@lubriplate.com

- **Vice President, Sales:**
  Steve Morrow - Office: 973-589-9150
  Cell: 973-722-6516
  SMorrow@lubriplate.com

- **Quality Manager:**
  Jacki Dusza - 419-691-2491
  JackiD@lubriplate.com

- **Corporate Director of Technology:**
  Sib Hamid - 419-691-2491
  SHamid@lubriplate.com

- **Director of Information Technology:**
  Dan Moroses - 973-465-5737
  DanM@lubriplate.com

- **OEM Marketing Analyst and Government Agency Liaison:**
  Ellen Girard - 973-465-5731
  EGirard@lubriplate.com

- **National Accounts Rep:**
  Steve Paule - 602-690-0458
  SteveP@lubriplate.com

---

**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

www.lubriplate.com / E-mail: LubeXpert@lubriplate.com

Lubriplate Mining Catalog USA 3-2012e

PRINTED IN U.S.A.