



Renewable Lubricants, Inc.

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Bio-Saw Guide™ Oils



"Bio-based Lubricants that Perform Like Synthetics"

RLI's Bio-Saw Guide™ Oils are ultimately biodegradable¹ vegetable oils formulated with Antiwear/Extreme Pressure additives, rust/corrosion and oxidation inhibitors, an emulsifier, and a tackifier. They are specially formulated to lubricate modern "thin kerf" sawing systems. Performance is enhanced by use of the Stabilized HOBS's natural composition, which provides an oily boundary film. The super high viscosity index of the Stabilized HOBS adds additional lubrication qualities to these high performance lubricants. Bio-Saw Guide Oils have the optimum emulsification to allow the correct mixing of oil and water. In addition, they provide tackiness properties to allow the lubricant to cling to saw and guide components.

Applications: Bio-Saw Guide™ Oils meet or exceed the performance requirements of most saw system manufacturers including Kockums CanCar, CAE Newwes (McGehee), Optimill, Salem, TMT, Ukiah, and USNR (Schurman).

These bio-based lubricants have exceptional benefits over petroleum-based lubricants because there is direct danger of polluting the air, water, soil, or work environment through loss of the lubricant. Bio-Saw Guide Oils are ENVIRONMENTALLY RESPONSIBLE lubricants that are formulated from renewable agricultural plant resources. We believe Earth's environmental future rests in the use of renewable material.

Typical Specifications

| <u>SAE Viscosity Grade</u> | | 10W20 | 10W30 | 15W50 | 20W60 |
|-----------------------------------|--------|--------------|--------------|--------------|--------------|
| ISO Viscosity Grade | | 46 | 68 | 100 | 150 |
| API Gravity @ 60°F | D-287 | 29.3 | 27.8 | 24.5 | 24.5 |
| Pounds/Gallon @ 60°F | | 7.33 | 7.39 | 7.56 | 7.56 |
| Specific Gravity @60°F | D-287 | .88 | .888 | .907 | .907 |
| VISCOSITIES: | D-445 | | | | |
| @100°C., cSt. | | 8.65 | 12 | 18.2 | 26.1 |
| @40°C., cSt. | | 43.74 | 62.9 | 95 | 147 |
| Viscosity Index | D-2270 | 181 | 191 | 212 | 213 |
| Flash Point, COC, °C | D-92 | 260 | 272 | 288 | 290 |
| Pour Point, °C | D-97 | -36 | -33 | -30 | -24 |
| Copper Strip Corrosion (3h@100°C) | D-130 | 1A | 1A | 1A | 1A |
| 4-Ball Wear (mm) | D-4172 | 0.30 | 0.30 | 0.30 | 0.30 |
| 4-Ball EP | D-2783 | | | | |
| Weld Point (kg) | | 250 | 250 | 250 | 250 |
| Load Wear Index | | 47.86 | 47.86 | 47.86 | 47.86 |
| Timken Load, OK Load (lbs) | D-2782 | 70 | 70 | 70 | 70 |
| Rust Prevention | D-665 | | | | |
| A-Distilled water | | Pass | Pass | Pass | Pass |
| B-Syn. Sea water | | Pass | Pass | Pass | Pass |

STABILIZED by Renewable Lubricants* is RLI's trademark on their proprietary and patented anti-oxidant, anti-wear, and cold flow technology. High Oleic Base Stock (HOBS) are agricultural vegetable oils. This Stabilized technology allows the HOBS to perform as a high performance formula in high and low temperature applications, reducing oil thickening and deposits.

¹ Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants
 Patented Product: US Patent 6,383,992, US Patent 6,534,454 with additional Pending and Foreign Patents

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Availability **F.O.B. :Bolton, ON, Canada** **5 Gallon Pails** **Drums** **Bulk**