



# Renewable Lubricants, Inc.

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## Bio-Saw Guide™ Oils



### *"Biobased Lubricants that Perform Like Synthetics"*

Bio-Saw Guide™ Oils are ultimately biodegradable<sup>1</sup> 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 can be used straight or their viscosity can be reduced with water. Their emulsification helps in cleaning and dissolving pitch and allows 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 biobased 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 Replacement</u>		<b>10W20</b>	<b>10W30</b>	<b>15W50</b>	<b>20W60</b>
ISO Viscosity Grade		46	68	100	150
VISCOSITIES:	D-445				
@100°C., cSt.		8.8	12.0	18.3	24.8.
@40°C., cSt.		44.6	63.3	95.9	141
Viscosity Index	D-2270	181	190	212	210
Flash Point, COC, °C	D-92	260	272	288	290
Pour Point, °C	D-97	-35	-33	-31	-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
<b>RLI Product Number</b>		<b>82500</b>	<b>82520</b>	<b>82540</b>	<b>82560</b>

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.

<sup>1</sup> 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. :Hartville, Ohio, USA   1 Gallon   5 Gallon Pail   Drum   Totes   Bulk**