



Renewable Lubricants, Inc.

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Bio-Chain & Cable™ Lubricants



"Biobased Lubricants that Perform Like Synthetics"

RLI's Bio-Chain & Cable™ Lubricants are ultimately biodegradable¹ vegetable oils formulated with Antiwear/EP, rust/corrosion and oxidation inhibitors, and a tackifier. Bio-Chain & Cable™ Lubricants are recommended for heavy chains, sprockets, and cables which are subject to heavy loading or shock loading. The products provide improved fire resistance over equal viscosity petroleum products and contain no chlorine, zinc, or other heavy metals. 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 this high performance lubricant. Laboratory and field tests have shown that the products provide exceptional equipment protection at higher temperatures with excellent cold temperature pumpability.

Applications: Forestry, Mining, Marine, Agriculture, Heavy Industry, Rail and Shipping, Pulp and paper mills, saw mills, plywood mills, hoist cables and chains in marine shipping areas, draglines, drives on straddle lift lumber carriers, drip and automotive chain oilers, motorcycle and ATV chains, etc.

These biobased products 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-Chain & Cable Lubricants 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

	ASTM	Light 10W20	Medium 10W30	Heavy 15W50	Extreme Heavy 20W60
SAE Viscosity Grade					
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. :Hartville, Ohio, USA

5 Gallon Pails Drums Bulk