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Bio-Drip™ Oils

STABILIZED™ by Renewable Lubricants

"Biobased Lubricants that Perform Like Synthetics"

Bio-Drip™ Oils are fully formulated ultimately biodegradable[1] vegetable-based drip oils for bearing lubrication. They are recommended for use in drip lubrication systems for water well line shaft bearings, irrigation systems, pump bearings, etc. These patented biobased oils are formulated to perform in drip applications that require Anti-Wear (AW), anti-rust, anti-oxidation, anti-foam, and demulsibility properties. They are highly inhibited against moisture and rusting in both fresh and sea water and pass A and B Sequences of the ASTM D-665 Turbine Oil Rust Test. 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.

These products should always be used whenever there is a danger of soil or water pollution. The best applications for these products are in the agricultural, construction, forestry, mining and marine industries.

Bio-Drip™ Oils meet the Environmental Protection Agency (EPA) 2013 Vessel General Permit (VGP) guidelines for Environmentally Acceptable Lubricants (EALs), and should be used where **LOW TOXICITY**, **BIODEGRADABILITY** and **NON-BIOACCUMULATION** properties are required. They exceed the acute toxicity (LC-50 / EC-50 >1000 ppm) criteria adopted by the US Fish and Wildlife Service and the US EPA. Bio-Drip™ Oils are ENVIRONMENTALLY RESPONSIBLE lubricants that are formulated from renewable agricultural biobased resources. We believe Earth's environmental future rests in the use of renewable materials.

[1]Ultimate Biodegradation (Pw1) within 28 days in ASTM D-5864 Aerobic Aquatic Biodegradation of Lubricants

Typical Specifications

SAE Grade	**10W20**	**10W30**	
ISO Grade	32	46	220
VISCOSITIES:			
@100^{O} C., cSt.	7	10	36.0
@40^{O} C., cSt.	31	48	219
Brookfield, @-25^{O} C., cP, (D-2983)	<3,000	3,000	
MRV @ -35 ^{O} C., (TP-1)	<30,000	30,000	
Viscosity Index	198	202	210
Flash Point, COC, ^{O}C	225	278	285
Pour Point, ^{O} C	<-36	-36	-20
Copper Corrosion Strip 3hr @ 100^{O}C	1A	1A	1A
4 Ball Wear, 1h, 167^{O} F, 1200 RPM, 40kg	.36	.36	.360
Demulsibility (D-1401)	Pass	Pass	40/40/0
Foam Sequence I, II, III (D-892)	0	0	0
Rust Prevention, (D-665 A&B)	Pass	Pass	Pass
RLI Product Item #	**84010**	**84020**	**84030**

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.

Patented Product: US Patent 6,383,992, US Patent 6,534,454 with additional Pending and Foreign Patents

Availability F.O.B. :Hartville, Ohio, USA 1 Gallon 5 Gallon Pail Drum Totes Bulk