

Renewable Lubricants, Inc.

Distributed By: DM's Bio-Based Fluid Supply Inc. 10 McEwan Dr. W, Unit 4B Bolton, ON, Canada L7E 1H1

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Bio-AssemblyTM **Oils** (ISO- 7, 15, 22, 32, 46, 68, 100, 150, 220)



"Bio-based Lubricants that Perform Like Synthetics"

Bio-AssemblyTM Oils are specially formulated vegetable based oils (Bio-based) that replace neutral petroleum oils in industrial assembly and general purpose applications. These ultimate biodegradable¹ products provide low odor and are highly accepted where additive free neutral base oils and material compatibility are desired. They have been Stabilized* to resist oxidation and provide excellent light color stability. They are aromatic, chlorine, and sulfur free.

Bio-Assembly™ Oils provide excellent compatibility with many types of rubber, general purpose elastomers, and other materials they may be in contact with. These oils provide in-house, short term corrosion protection for metal parts and they are non-staining to aluminum and yellow metals. Their natural oiliness provides excellent lubricity in assembly and fabricating of metal parts that do not require anti-wear and E.P. additives. Bio-Assembly™ Oils have shown to provide the proper oiliness and fluid film necessary for rubber to metal contact in shooter assembly and presses.

Bio-Assembly Oils are <u>ENVIRONMENTALLY RESPONSIBLE</u> lubricants that are formulated from renewable agricultural plant resources. We believe Earth's environmental future rests in the use of renewable material.

The advantages are many: biodegradable, renewable, low toxicity, no volatile organic compounds (VOCs), safer, more fire resistant, EPA and ISO 14000 compliant, reduces foreign oil, and helps secure the American Economy. OSHA and worker acceptance is high with bio-based oils.

Typical Specifications

ASTM Grade (Neutral Oil)	50N	75N	105N	150N	215N	315N	465N	700N	1000N
ISO Grade	7	15	22	32	46	68	100	150	220
API Gravity @ 60°F. (D-287)	29.3	27.5	27.5	25.7	25.7	25.7	25.7	25.7	25.7
Pounds/Gallon @ 60°F.	7.32	7.40	7.44	7.49	7.48	7.48	7.47	7.47	7.46
Spec. Gravity @ 60°F. (D-287)	.88	.89	.89	.90	.90	90	.90	.90	.90
VISCOSITIES:									
@100°C., cSt. (D-445)	2.46	4.17	5.30	7.18	9.74	12.89	18.04	25.26	34.06
@40°C., cSt. (D-445)	7.07	14.71	20.52	31.28	45.67	64.95	99.13	151.29	220.30
Viscosity Index (D-2270)	207	226	212	205	206	203	202	202	202
Flash Point, COC, ^o C (D-92)	180	200	270	280	280	280	280	280	280
Pour Point, ^o C (D-97)	-5	-10	-15	-20	-20	-20	-20	-20	-20
*Stabilized-Oxidation Inhibited	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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, US Patent 6,624,124, US Patent 6,620,772 with additional Pending and Foreign Patents

* Trademark of Renewable Lubricants, Inc.

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Availability F.O.B. :Bolton, ON, Canada

5 Gallon Pails Drums Bulk

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