



# Renewable Lubricants, Inc.

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## **Bio-Food Grade™ GP Lubricants** **(ISO- 10, 15, 22, 32, 46, 68, 100, 150, 220)**

### *"Bio-based Lubricants that Perform Like Synthetics"*

Bio-Food Grade™<sup>1</sup> GP (General Purpose) Lubricants are vegetable oil-based lubricants that contain ingredients which are "Generally Regarded as Safe" (GRAS) for food processing equipment. They have excellent oxidative stability and high biodegradability and can be used in environmentally sensitive areas such as in agriculture, marine, and food processing plants. Bio-Food Grade™ GP Lubricants provide excellent compatibility with many types of rubber, general purpose elastomers, and other materials they may be in contact with. These oils provide short term corrosion protection for metal parts and they are non-staining to aluminum and yellow metals. Their natural oiliness provides excellent lubricity in equipment that does not require anti-wear and E.P. additives.

**Applications:** Drip oilers, air-oilers, air-tools, water pumps, bearings, machine oil, roller chains, cables, light circulating oil, etc., and general lubrication. These products may also be used in light reduction units where original equipment manufacturers require an R&O lubricant.

Bio-Food Grade™ GP 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.

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**

ISO Grade	10	15	22	32	46	68	100	150	220
ASTM Grade (Neutral Oil)	60N	75N	105N	150N	215N	315N	465N	700N	1000N
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)	.84	.86	.88	.89	.90	.90	.90	.90	.90
VISCOSITIES:									
@ 100°C., cSt. (D-445)	2.97	4.0	5.05	7.18	9.93	13.3	19.0	26.9	36.4
@ 40°C., cSt. (D-445)	10.0	14.71	20.52	31.28	45.67	64.95	99.13	151.29	220.30
Viscosity Index (D-2270)	160	176	190	205	213	215	215	216	218
Flash Point, COC, °C (D-92)	146	180	220	250	280	280	280	280	280
Pour Point, °C (D-97)	-20	-20	-20	-20	-20	-18	-15	-10	-5
*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.

<sup>1</sup> Base oils and additives in this product are listed in 21 CFR 178.3570, Lubricants for incidental food contact (USDA H-1). Full compliance with other applicable restrictions of FDA, USDA, oil spill, and oil pollution prevention statutes is recommended.

Patented Product with Pending and Foreign Patents

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