



## Renewable Lubricants, Inc.

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### Bio-Air Tool™ Lubricants (ISO 22, 32)



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

Bio-Air Tool™ Lubricants are specially formulated, ultimately biodegradable<sup>1</sup> air tool lubricants designed to replace petroleum based air tool oils and manage compressed air contamination in food plants. Because of their low toxicity and super high viscosity index of the HOBS, these biobased products perform in many air tool applications. In addition, these products emulsify water for improved lubricity and corrosion protection in moist conditions and provide anti-misting. The natural oily film of these products has shown in laboratory and field tests to out perform petroleum base oils in terms of natural lubricity.

These air tool oils provide excellent lubrication for both rotary and reciprocating types of air tools, such as chipping hammers, impact wrenches, air motors, grinders, reamers, drills, etc. They can be fed through an airline lubricator or by a squirt can directly into the tool through the quick coupling air connection. These products have exceptional benefits over petroleum oils in these applications because there is direct danger of polluting the air, water, soil, or work environment through loss of the lubricant.

Bio-Air Tool™ Lubricants 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-Air Tool™ 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.

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

#### Typical Data

ISO Grade		22	32
Viscosity @40°C., cSt.	ASTM D-445	22.4	29.33
Viscosity @100°C., cSt.	ASTM D-445	4.9	7.34
Viscosity Index	ASTM D-2270	176	203
Flash Point, COC	ASTM D-93	220°C	230°C
Pour Point	ASTM D-5985	-45°C	-35°C
Rust Prevention	ASTM D-665		
Distilled Water		Pass-Clean	Pass-Clean
Synthetic Sea Water		Pass-Clean	Pass-Clean
Foam Sequence I, II, III (10 min)		0 Foam	0 Foam
Copper Corrosion Strip 3hr @ 100 °C	ASTM D-130	1 A	1 A
<b>RLI Product Item #</b>		<b>83100</b>	<b>83110</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.

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**    **Quart**    **1 Gallon**    **5 Gallon Pail**    **Drum**    **Totes**    **Bulk**