

# **Bio-General Purpose™ Cut 30 & 40**

**(ISO Equivalent Grades: 30, 40)**

## **Biobased Cutting Oils for Light to Medium Duty Machining**

Bio-General Purpose™ Cut oils are biobased, readily biodegradable cutting oils designed for light to medium duty machining operations. These transparent fluids allow visual monitoring of cutting processes while minimizing smoke and mist generation. Formulated with Stabilized™ HOBS (High Oleic Base Stock) technology, these lubricants deliver outstanding lubricity, wetting, and EP performance without the use of sulfur, chlorine, or heavy metals. They are non-staining to yellow metals and safe for use on ferrous and non-ferrous alloys.

## **Benefits**

- Readily biodegradable, non-toxic, not bioaccumulative
- Transparent formula allows clear visibility during cutting
- Reduces smoke and mist during operation
- Excellent wetting, lubricity, and EP protection
- Non-staining to yellow metals
- No active sulfur, chlorine, zinc, phosphorus, or heavy metals
- No hazardous VOCs; odorless and safe for workers
- EPA and ISO 14000 compliant
- Compatible with Bio-Syntra™ and Bio-SynXtra™ additives for enhanced EP

## **Application / New Filling**

- Ideal for:
  - Light to medium-duty cutting and machining operations
  - Machining of ferrous alloys
- Compatible with CNC machines, lathes, mills, drills, and general shop equipment
- Apply directly to contact areas per equipment manufacturer recommendations

## **Specifications and Approvals**

- ASTM D-5864: Ultimate Biodegradation/ OECD 301 Readily Biodegradable
- Patented Stabilized™ HOBS technology for thermal and oxidative stability
- Biopreferred qualified, made from renewable U.S. agricultural resources

## Typical Specifications

Grade	30	40
Specific Gravity @60°F	.89	.90
VISCOSITIES: @ 100°C., cSt.	7.0	9.0
@40°C., cSt.	29.2	40.0
Viscosity Index	215	216
Flash Point, COC °C	218	240
Pour Point, °C	-16	-18
Copper Corrosion ASTM D-130	1B	1B
Rust Prevention ASTM D-665	No Rust	No Rust
4-Ball Wear ASTM D-4172 (mm)	.40	.35
4-Ball EP Weld Pt. ASTM D-2783 (kg)	250	315
Load Wear Index	36	41
<b>RLI Product Item #</b>	<b>86820</b>	<b>86830</b>

STABILIZED by Renewable Lubricants\* is RLI's trademark on their proprietary and patented anti-oxidant, anti-wear, and cold flow technology. This Stabilized technology allows the HOBBS to perform as a high-performance formula in high and low temperature applications, reducing oil thickening and deposits.

<sup>1</sup> 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, Patent 6,624,124, US Patent 6,620,772 with additional Pending and Foreign Patents

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