



## Renewable Lubricants, Inc.

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### **Bio-E.P.™ 80W90 Gear Oil GL-4**



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

Bio-E.P.™ 80W90 Gear Oil is designed to meet the GL-4 requirements of spiral bevel transmission and moderate service hypoid gears. This formula has combined Stabilized HOBS technology with synthetic base stocks and mild EP/antiwear additives. The result is an ultimately biodegradable<sup>1</sup> product which has the long life heat stability but which additionally offers the protection advantages of increased gear life through extremely high film strength and excellent low temperature performance. Bio-E.P.™ 80W90 Gear Oil is an ENVIRONMENTALLY RESPONSIBLE lubricant that is formulated from renewable agricultural plant resources. We believe Earth's environmental future rests in the use of renewable material.

#### Typical Specifications

SAE Gear Grade	80W90
API Gravity @ 60°F. (D-287)	22
Pounds/Gallon @ 60°F.	7.424
Specific Gravity @60°F (D-287)	0.92
VISCOSITIES:	
@100°C., cSt. (D-445)	19.2
@40°C., cSt. (D-445)	121
Viscosity Index (D-2270)	180
Flash Point, COC, °C (D-92)	280
Pour Point, °C (D-97)	-30
Copper Corrosion Strip 3hr @ 100°C (D-130)	1A
4 Ball Wear, 1h, 167°F, 1200 RPM, 40kg (D-4172)	.30
FZG Test (DIN 51517)	12
Demulsibility (D-2711)	Pass
Foam Sequence I, II, III (D-892)	Pass
Rust Prevention (D-665)	Pass

- Features**
- (1) API Service Classifications GL-3, GL-4
  - (2) Super high viscosity index and low pour point for wide temperature usage
  - (3) Fortified with additives to resist wear, oxidation, rust and foam
  - (4) Exceeds U.S. Steel and AGMA wear and EP performance

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> 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 with additional Pending and Foreign Patents

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**Availability**    **F.O.B. :Hartville, Ohio, USA**        **5 Gallon Pails**    **Drums**    **Bulk**