



## Renewable Lubricants, Inc.

Distributed By: DM's Bio-Based Fluid Supply Inc.  
10 McEwan Dr. W, Unit 4B  
Bolton, ON, Canada L7E 1H1  
Voice: 905.951.1100 Fax: 905.951.2100  
[www.dmsbiobased.ca](http://www.dmsbiobased.ca)



### **Bio-High Temp™ 180 E.P. Grease** **NLGI #2 (Multipurpose Lithium Complex)**

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

This High Temperature Bio-based grease is a state-of-the-art product, which is characterized by its super high viscosity index base oil and lithium complex thicker. The super high viscosity index of the Stabilized\* HOBS naturally improves the thermal shear stability and load capacity. This very high load carrying ability, excellent resistance to water, corrosion, and outstanding performance in a wide temperature range, make it high performance premium grease. It contains no heavy metals or other harmful or environmentally undesirable additives, such as chlorine, barium or lead. The Extreme Pressure performance is supported by an environmentally friendly E.P. additive and the total formulation is Ultimately Biodegradable<sup>1</sup>. The data below shows that this product is truly outstanding multipurpose lithium complex grease with excellent high temperature properties and good cold temperature mobility. This Bio-Based High Temperature Grease meets and exceeds the performance requirements of ASTM D-4950 (NLGI CG/LB)

**Applications:** Industrial and mining machinery, transportation, agricultural, construction and forestry equipment, paper mills, conveyors, journal bearings, electric motors, pumps and marine applications can all benefit from its long lasting protection.

- Unique high performance multipurpose automotive and industrial grease
- Provides significant protection in automotive, industrial and agricultural wheel bearing applications where temperatures can be high due to heat from disc brakes
- Excellent for chassis lubrication because of superior low temperature properties, shear stability, and water resistance
- Preferred grease for lubrication of antifriction bearings
- Biodegradable-Environmentally friendly

#### **Typical Specifications:**

Base Oil- Viscosity @ 40°C cSt	179
Viscosity @ 100°C cSt	26
Viscosity Index	180
Pour Point	-36°C
Color	Green
Texture	Smooth, Tacky
Drop Point F (C) D-566	>590°F (>310°C)
Bomb Oxidation, 100 h. D-942	5.0 psi
4-Ball Wear D-2266	0.428 mm
4-Ball EP D-2596	Weld 315
	LWI 44
Low Temp Performance, Torque at -40 C D-4693	10.04 Max, 6.39 at 60 sec
High Temperature Life D-3527	100 hrs.
Leakage Tendencies D-4290	7.4 g
Timken OK Load D-2509	60 lbs
Pen, @ 25°C Unwkd D-217	274 mm/10
Pen, Wkd 60 strokes	284 mm/10
Pen, Wkd 10,000 strokes change from 60 strokes	280 mm/10 (-4)
Pen, Wkd 100,000 strokes change from 60 strokes	293 mm/10
Roll Stability D-1831	-4.00%
Cone Bleed D-6184	4.94% Loss
Water Washout D-1264 (Avg.)	5.00% Loss
Evaporation D-6184	0.52% Loss
Oil Separation D-1742	1.1% Loss
Rust Test D-1743	Pass
Copper Corrosion D-130	1A



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. :Bolton, ON, Canada 14 oz. Tubes 35 lb Pails 120 lb Kegs 400 lb Drums**