## **Renewable Lubricants, Inc.**

476 Griggy Rd., P.O. Box 474 Hartville, Ohio 44632-0474 Voice: 330.877.9982 Fax 330.877.2266 Web: www.renewablelube.com

## **Bio-High Temp™ 180 E.P. Grease**

NLGI #2 (Multipurpose Lithium Complex)

## "Biobased Lubricants that Perform Like Synthetics"

This High Temperature Biobased 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 BioBased 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:**

| Typical Specifications:                         |                           |
|---|---------------------------|
| Base Oil- Viscosity @ 40°C cSt                  | 179                       |
| Viscosity @ $100^{\circ}$ 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 <sup>0</sup> 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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AvailabilityF.O.B. :Manufacturer14 oz. Tubes35 lbPails120 lbKegs400 lbDrumsRLI Product Item #87611



