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Recyclable

United Bio Lube

Enabling Compliance with White House Executive Orders
13101, 13123, 13134, 13148, 13149

Sustainable
Renewable



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A Green Chemistry Company

Enabling U.S. Oil Independence



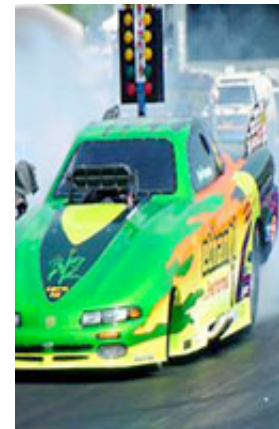
2003

Renewable Lubricant's Soy-based Engine Oil Outperforms Petro-Chemicals!

With our ever-important dependence on foreign oil, many industries in the United States are looking for alternatives to mineral-based petrochemical byproducts such as engine oil. That is why **Renewable Lubricants, Inc. (RLI)** with funding in part by the **United Soybean Board (USB)** and **Soybean Checkoff**, is developing a soy-based motor oil.

The **SAE 10W40** (Mid Oleic 60%) soy-based vegetable engine oil developed by RLI was put to the test in a **1999 Ford F-250 Power Stroke Diesel Engine**. The testing program included highway, city, county, and towing mileage.

The tests show that the overall performance of the soy-based oil was better in comparison to mineral-based formulas. Samples were taken at the oil change, where both spectrometer analysis and ferrographic analysis studies were done to determine performance level. The data collected shows oxidation with good mechanical shear stability at the 6,000 plus mile oil change intervals, which exceeds Ford's 4,000-mile oil change interval recommendation.



"These findings are encouraging not just for this particular engine oil, but also for other soy-based formulations on the lubricant market," said William Garmier, vice president of Renewable Lubricants, Inc. "Hopefully, this opens the door to further and broader research and new viable industrial uses for soybean oil in the lubricants market."

Soybean oil has a low volatility and its molecular structure effectively reduces friction between metal. Past studies have shown that soy oil can be formulated to be more stable under intense heat and can be combined with conventional chemicals or synthetic lubricants to make cost-effective and environmentally friendly products.

Since soybean oil is readily biodegradable, virtually nontoxic and a domestic, renewable resource, the benefits of these lubricants are tremendous. With 63,000 miles of data under their belt, RLI and the United Soybean Board are only at the beginning stages of fully utilizing the possibilities of soybean lubricants. Renewable Lubricants, Inc. is continuing testing on a variety of vehicles and a broader range of lubricants.

For more information on RLI's Bio Motor Oils, please visit <http://www.BioMotorOils.com/> or phone (650) 213-9979.

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