



Renewable Lubricants, Inc.

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Bio-Power™

Soy-Based Winter Diesel Fuel Conditioner



Bio-Power™ is a soy-based diesel fuel conditioner formulated to improve fuel economy and power, and overcome the known problems associated with today's fuel and newer emission control systems. Bio-Power™ provides approved EPA standards for world class "Premium Diesel" injector cleanliness, lubricity, and stability (EPA registration #214820002 per 40 CFR 70.23). When used at the recommended treat rate in untreated fuel, Bio-Power™ helps diesel fuels meet and exceed the National Conference on Weights & Measurements (NCWM), Engine Manufacturer's Association (EMA) and Truck Maintenance Council (TMC) requirements for:

- Cummins L10 Injector Depositing Test Detergency (Reference SAE Paper No. 912331)
- Fuel Stability using the 180 minute, 302° F oxidation test (NCWM and ASTM accepted)
- Improved Lubricity (ASTM D-6078 Scuffing/Load BOCLE)
- Corrosion Protection ASTM D-665A (NACE)
- Water Tolerance ASTM D-1094

Based on multiple fleet trials and Cummins L10 Injector Deposit Tests, Bio-Power™ shows significant improvements over untreated fuels in fuel economy, exhaust opacity (black smoke reduction), and engine noise. Cleanliness and lubricity performance help to maintain engines in "like new" condition which maintains power, minimizes crankcase oil dilution, and supplements upper cylinders and valve train with anti-wear protection.

For: Railway, Marine, Stationary Equipment, Transportation, and Passenger Vehicle Diesel Engines

Fleet tested in Direct and Indirect Injection Vehicles to show the following impressive results:

- Provides superior rating level of injector cleanliness as shown by the Cummins L10 test
- Exceeds CSCA requirements for Peugeot XUD-9 injector cleanliness
- **Improves fuel economy (4.1% to 13.6%) and horsepower (up to 5.6%)**
- **Reduces exhaust emissions (up to 42% less black smoke) and reduces NOx**
- Provides superior corrosion protection (Cummins N14 Corrosion/Erosion Test)
- Enhances fuel stability in storage and equipment
- Offers exceptional lubricity for reduced fuel system wear
- Reduces water entrainment & prevents varnish and sludge formation in fuel & fuel filter system
- Protects against low temperature gelling and icing

There are clear and measurable advantages to incorporating this multi-functional, soy-based diesel fuel conditioner into diesel fuel. The end user of Bio-Power™ treated fuel will appreciate the differences of improved drivability, reduced combustion noise, longer component life, and reduced operating costs.

Directions (Highly Concentrated):

Normal Winter Performance – 1 gallon per 1000 gallons of fuel (eliminates economic downgrading of 30% kerosene blend). Use 1 gallon per 750 gallons of fuel for maximum severe winter conditions.

For best compatibility, add to diesel fuel before diesel fuel reaches its cloud point and store Bio-Power above 20°F before use.

Proprietary Formula

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<u>Availability</u>	<u>F.O.B. :Hartville, Ohio, USA</u>	<u>Quart</u>	<u>1 Gallon</u>	<u>5 Gallon Pail</u>	<u>Drum</u>	<u>Totes</u>	<u>Bulk</u>
Item #		80411	80413	80414	80416	80417	80419