

Why Use Biodiesel?

Improved Engine Performance

When biodiesel is blended with petroleum diesel, even in amounts as low as 1%, lubricity is improved by up to 65%. The engine runs more smoothly and quietly.



Steve Bushman, Fort Atkinson, Iowa
"I love biodiesel. I can tell the difference in performance of the truck even with half a tank. It seems to have more power. I started using it because the truck seems to run better."

Less Foreign Oil Dependence

To keep energy profits here at home and reduce the leverage of oil-exporting countries over the United States, truckers are increasingly switching fuels to make home-grown biodiesel the alternative fuel of choice for heavy duty vehicles.

Cleaner Emissions

Biodiesel produces about 50 percent less pollution, virtually eliminates sulfur emissions, and dramatically reduces potential cancer-causing compounds.

Support for U.S. Farmlands

Most biodiesel is locally grown and produced, keeping fuel dollars in our country and our communities. In fact, U.S. soybean farmers funded much of the development of the biodiesel industry and are still heavily involved through the soybean checkoff program.



Terrence N. Mescha, Plainfield, Illinois
"I drive a '99 International. I like biodiesel because it's American-grown and cleaner-burning."

Who Uses Biodiesel?

What started as a movement by **farmers** to use their own crops as fuel, has grown into a nationally available diesel alternative.

Biodiesel users include:

- **Federal, state and municipal fleets**
- **School buses**
- **U.S. Armed Forces**
- **National parks**
- **Mining industry**
- **Freight companies, fleets and trucking lines**



Dale Decker, Decker Truck Line, Inc., Fort Dodge, Iowa
"I appreciate the fact that biodiesel provides support for American farmers as a home-grown fuel. In addition, the added lubricity that biodiesel provides helps meet fuel lubricity needs when used with Ultra Low Sulfur Diesel (ULSD)."

And of course, Owner-Operators and Independent Truckers are using biodiesel to benefit farmers, truckers and America.



R. E. White, Mortons Gap, Kentucky
"I use biodiesel when possible. I get a cooler engine and about 1/2 mile extra per gallon. I also like the fact that it helps farmers and truckers."



Biodiesel for Truckers



**Making our nation stronger,
our farm economy healthier,
and our air cleaner**

What is Biodiesel?

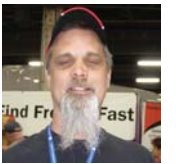
Biodiesel a cleaner-burning, sustainable fuel that is refined from domestically grown crops like soybeans. Biodiesel is most often blended with petroleum diesel at blends from 2% to 20% biodiesel, which can be used in any compression ignition engine without modifications.



Jeff Mueller, Bethany, Missouri
"I love biodiesel B5 and B10 blends. My truck runs smoother and it seems to have more power."

Benefits of Biodiesel:

- Works in any diesel engine without modification
- Burns cleaner than diesel
- Adds engine lubricity
- Has a higher flashpoint than petroleum diesel
- Safer handling with less toxicity than diesel
- Provides highest energy balance of any fuel
- Improves America's energy security
- Supports American farmers



Arch Robertson, Mechanicsville, Virginia
"I've used biodiesel at 100% (B100) without any problems as a no-sulfur, high lubricity product. It's good for our trucks, the environment, farmers and our country."

Biodiesel is available in most states and is becoming the primary fuel choice for many truckers. But, to make it more available, ask truck stops along your route to provide biodiesel. To find truck-accessible biodiesel fueling sites, go to www.BioTrucker.com or call **1-866-BIODIESEL**.

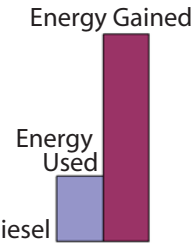
Biodiesel Facts for Truckers:

- Just 1% biodiesel blended with ultra-low sulfur diesel improves lubricity by 65%.



Lee Strebel, Atlanta, Georgia
"I love using biodiesel every chance I get, especially with ultra low sulfur diesel. Biodiesel keeps the lubricity up and my fuel system clean."

- OEMs including Caterpillar, Cummins and Volvo will not void the engine warranty for using biodiesel at their recommended blend. Some OEMs recommend B5 or B20 and others recommend as high as B30.
- In more than 30 million miles of in-field and over-the-road demonstrations, B20 showed similar fuel consumption, horsepower, torque and haulage rates as conventional fuel.
- For every one unit of energy needed to produce biodiesel, 3.2 units of energy are gained, giving it the highest energy balance of any fuel available today.



- Any percentage of biodiesel blended with petroleum diesel lowers CO2 emissions and particulate matter. (see www.biodiesel.org/tools/calculator/ to find out how much.)
- Just 5% biodiesel added to U.S. on-road diesel would displace 1.85 billion gallons – that's equal to the amount of diesel made from petroleum imported from Iraq.



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Oil from One Bushel of Soybeans = 1.5 Gallons of Biodiesel

- Biodiesel is safer to use than petroleum diesel with a flash point of 200 degrees versus about 125 degrees Fahrenheit for regular No.2 diesel.

What to Watch Out for:

- ASTM standards exist for biodiesel and the industry has implemented a certification called BQ-9000 – always buy quality biodiesel from a reputable truck stop.
- Properly-blended biodiesel that meets ASTM quality standards can be used at blends less than 20% in cold climates with about the same gelling temperature as petroleum diesel – much like diesel, additives can be mixed in to increase cold weather performance.
- Biodiesel has cleansing properties and may clog fuel filters during the first couple tanks – be sure to monitor your fuel filters and have an extra fuel filter on hand just in case.

Loren J. Beal, Lacrosse, North Dakota



"I get 5/8 of a mile more to the gallon with biodiesel. It cleans the fuel tanks, lines and injectors. When you start to use it you should carry fuel filters because it cleans your system, but I never had to change filters because of biodiesel. I get a little more power. I wish more places had it; I get it anywhere I can."

- B100 biodiesel may cause degradation of natural rubber hoses (found sometimes in trucks manufactured before 1994) – B20 or lower blends should not have this issue.

Greg Bosley, Baltimore, Maryland



"I love biodiesel. I find that highway mileage increases 100-125 miles per tank. I also notice no more soot on paint from exhaust and the engine runs smoother and quieter. Don't fear using biodiesel."