

AFTER SALES UPDATE: SERVICE BIODIESEL FUEL REFERENCE

What every biodiesel user should know

Biodiesel users are strongly encouraged to purchase biodiesel blends from a BQ-9000 Certified Marketer and to source from a BQ-9000 Accredited Producer, as certified by the National Biodiesel Board.

Material compatibility

Through repeated exposure, biodiesel can seep through certain seals, gaskets, hoses, elastomers, glues, and plastics. Biodiesel seepage becomes more of a situation with older engines. Natural rubber, nitrile, and butile rubber are particularly vulnerable to degradation. Whereas brass, bronze, copper, lead, tin, and zinc can accelerate the oxidation of biodiesel and create deposits in the engine.

AFTER SALES UPDATE: SERVICE BIO DIESEL FUEL OVERVIEW

- Biodiesel is a renewable, oxygenated fuel made from agricultural resources such as soybeans.
- Primary advantage of biodiesel: Renewability. As a renewable energy source, biodiesel can help reduce dependence on petroleum imports.
- Biodiesel contains no petroleum but can be blended at any level with petroleum diesel to create a biodiesel blend. The amount of Bio in the blended fuel is expressed by BXX the XX is the percent of Biodiesel in the blend.

Example: Blended fuel B10 is 10 percent biodiesel 90 percent petroleum-based diesel fuel.

- Biodiesel is also referred to as FAME (Fatty Acid Methyl Ether).
- MTU/MTU Onsite Energy recommends: 5% Biodiesel, max.

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Performance

- Compared to conventional petroleum diesel fuel, B20 will result in slight reductions in power and fuel economy.
- Biodiesel can accelerate the degradation of crankcase oil.
- Fuel should be sampled periodically to ensure a consistent percentage of biodiesel
- When using biodiesel fuel, the engine oil level must be checked more frequently. Fuel can get into the oil system.
- Biodiesel can reduce water separator efficiency.
- Biodiesel can cause cold weather flow degradation.

Storage and Handling

- To improve storage of biodiesel fuels, MTU Onsite Energy recommends the use of a fuel stabilizer. To be effective, the stabilizer needs to be added to the fuel when it is fresh (close to the time it was produced). Testing the fuel to ensure it continues to meet specifications is recommended.
- Sedimentation and water should be removed on a routine basis.
- Fuel conditioners can improve pour points during the winter and oxidation stability in the summer.
- New fuel filters should be installed when biodiesel is introduced to older or used engines. For the first two changes, the fuel filter life will be half the standard.
- Biodiesel can cause corrosion and deposit formation due to higher acidity.

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Emissions

- Users are responsible for compliance with local emissions regulations limiting the use of biodiesel in emissions-certified engines.
- Biodiesel tends to increase NOx emissions while reducing smoke.

Warranty

The MTU Onsite Energy warranty covers only defects in material and workmanship as manufactured and sold by MTU Onsite Energy. Failures caused by poor quality fuel of any type cannot be compensated under warranty.