



MarathonBio-Diesel^{INC}

S H O R E T O D O O R

ASTM D6751 Certified

Bio-Diesel¹

- Exhaust has less harmful impact on human health as it contains less cancer causing compounds than petro-diesel.
- Has superior lubrication capabilities and increases engine life over petroleum diesel.
- Is a renewable, DOMESTIC fuel made from renewable fats and oils or recycled cooking oil.
- Is easier on humans and safer to breathe – vessel operators report a noticeable change in exhaust smell to be more palatable, with no eye irritation making it more user friendly on ship workers, party boat patrons and pleasure craft boaters.
- Contributes to the US economy and INDEPENDENCE on foreign oil.
- Is referred to as B100 or 100% bio-diesel. It has been designated as an alternative fuel by the Department of Energy (DOE) and US Department of Transportation (DOT).
- Can also be blended with petro-diesel. Bio-diesel blends are referred to as B2 thru B99. (i.e. a B2 blend is 2% bio-diesel and 98% petro-diesel.)
- Is non-toxic and the only alternative fuel to have passed rigorous EPA Health Effects Testing.
- Is less toxic than table salt and degrades faster than sugar.
- Has a high flashpoint, a minimum of 200 degrees versus 125 degrees for #2 diesel.
- Reduces greenhouse gasses by 80%.
- Performs similarly to low sulfur diesel in terms of power, torque and haulage rates.
- Reduces soot deposits on boat's stern.
- Can be used in any conventional diesel engine without major engine modification.
Pure bio-diesel (B100) has a solvent effect which may release deposits accumulated on tank walls and pipes from previous diesel fuel use. With high blends of bio-diesel the release of deposits may clog filters initially and precautions should be taken to replace fuel filters until the petroleum build-up is eliminated.

If you have questions, call Jeff at 305-522-7655
jeff@marathonbiodiesel.com
Or visit www.marathonbiodiesel.com



Top 10 Reasons Smart Customers Are Using Biodiesel:

1. Biodiesel is America's first domestically produced, commercially available Advanced Biofuel and meets EPA requirements for inclusion and use under the new Renewable Fuel Standard (RFS-2).
2. U.S. biodiesel reduces lifecycle carbon emissions by 57 to 86 percent compared to petrodiesel, making it the best carbon reduction tool of any liquid fuel commercially available.
3. Biodiesel has the highest energy balance of any commercially available fuel, returning 5.54 units of renewable energy for every one unit of fossil energy needed to produce it.
4. Biodiesel is produced from a variety of renewable resources, such as plant oils, animal fats, recycled grease, and even algae, making it one of the most sustainable fuels on the planet. And with biodiesel, you don't sacrifice food for fuel. Oils and fats for biodiesel are a minor by-product of producing high-protein feeds (soybean meal) and quality meats.
5. Biodiesel production reduces our dependence on foreign oil from unstable parts of the world, while expanding and diversifying our domestic refinery capacity.
6. Biodiesel is biodegradable, non-toxic, burns much cleaner than petrodiesel and is better for your health. Compared to petrodiesel, biodiesel reduces black smoke (particulates), carbon monoxide, and harmful unburned hydrocarbons that cause smog.
7. Biodiesel helps our U.S. economy and improves our balance of trade. Using biodiesel creates added outlets for farm based products and high paid manufacturing jobs in rural parts of our country.
8. Using biodiesel is easy! B20 and lower blends are a drop-in replacement for petrodiesel. They can be used in any diesel vehicle without modification, according to manufacturers' recommendations, and dispensed through existing fueling stations. Visit www.biodiesel.org/resources/oems/ for a listing of OEM Warranty Statements on biodiesel.
9. Biodiesel production is guided by stringent ASTM fuel specifications, developed through years of testing. ASTM D6751 is the standard for B100 biodiesel for use as a blend stock with petrodiesel; ASTM D7467 is the standard for B6-B20 blends. The diesel fuel specification ASTM D975 now includes an allowance for up to 5 percent biodiesel as part of the standard diesel fuel pool.
10. The biodiesel industry has an excellent fuel quality program called BQ-9000 (www.bq-9000.org). BQ-9000 Certified Biodiesel Producers, Marketers, and Laboratories help ensure that only the highest quality biodiesel meeting ASTM specifications gets put into your fuel tanks.



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Profile Code **MARATHN-BD**
 Attention Of Jeffrey Lillie
 Company Marathon BioDiesel
 User

Profile ID 5477

End

Taken	03-Aug-2012	Tested	07-Aug-2012	Sample	66066	Unit ID	MARATHON-A
Entered	03-Aug-2012	Reported	08-Aug-2012	Lab Batch	8139	Sample Details	
Sample Note:							

Test Name	Test Method	Limit	Result	Status
Free Glycerin (mass %)	ASTM D6584	MAX 0.020	0.012	PASS
Monoglycerides (mass %)	ASTM D6584	N/A	0.087	N/A
Diglycerides (mass %)	ASTM D6584	N/A	0.077	N/A
Triglycerides (mass %)	ASTM D6584	N/A	0.199	N/A
Total Glycerin (mass %)	ASTM D 6584	MAX 0.240	0.177	PASS
Flash Point, Closed Cup (°C)	ASTM D93	MIN 93	180	PASS
Alcohol Control (one Option must PASS)				PASS
Option 1: Methanol Content (wt %)	EN14110	MAX 0.20		
Option 2: Flash Point, Closed Cup (°C)	ASTM D93	MIN 130	180	PASS
Phosphorous (ppm)	ASTM D4951	MAX 10	0	PASS
Calcium + Magnesium (ppm)	EN14538	MAX 5	CA-0+MG-0=0	PASS
Sodium + Potassium (ppm)	EN14538	MAX 5	NA-0+K-0=0	PASS
KF Water (ppm)	ASTM D6304	N/A	371	N/A
TAN (mg KOH/g)	ASTM D664	MAX 0.50	0.14	PASS
Oxidation Stability by Rancimat (hrs)	EN15751	MIN 3.00	4.32	PASS