



Biodiesel analysis, testing and research services

State-of-the-Art Testing Services for Biodiesel Processors and Distributors.

North American production of biodiesel has grown dramatically in recent years. There is an increasing interest in replacing petroleum-based products with biomass-based products. As a result, new generation advanced biofuels and technologies are being developed and continue to gain popularity due to their ability to reduce climate-altering greenhouse gas emissions, lessen dependency on petroleum-based feedstocks, and to provide new economic opportunities for rural communities.

Assuring Bio-Content of Fuels

Biodiesel provides a product for blending with petroleum-based diesel to obtain a fuel with reduced sulfur content, reduced emissions and increased lubricity. Assuring the quality of biodiesel is a challenge not only for manufacturers of the product, but for the blenders of biodiesel fuels as well. Quality analysis and testing is essential and critical to ensure that the finished biodiesel product is free from contaminants or other by-products that could potentially compromise engine performance and longevity. FOI Laboratories has the capability to test biodiesel samples to ensure they meet recognized standards.

Our Services

FOI Laboratories offers complete analysis and testing for biodiesel fuels. All biodiesel tests are performed to ASTM D6751 standards for biodiesel fuel blend stock B100. Our wide range of fuel analysis and testing services addresses most quality issues associated with biodiesel processing and blending.

In addition, FOI dedicates a significant amount of its activity to research for improving advanced technology and compression ignition engine efficiency, and meeting emissions standards. Our research includes the testing and development of low-sulfur advanced biofuels and blending components that will improve the performance of engines and emission control devices.

If you would like more information on our biodiesel testing capabilities, or any of our other comprehensive testing packages for Diesel, Jet Fuels and Marine Bunker Fuels, please contact us at [360-546-3835](tel:360-546-3835) today.

You can also visit us on the web at www.foilabs.com.

Biodiesel Test Packages



Biodiesel Fuel Test Packages

www.foilabs.com

FOI Laboratories offers complete testing for Biodiesel fuels. All Biodiesel tests meet ASTM D6751 standards for Biodiesel Fuel Blend Stock.

Customers may choose from the recommended packages described below, or create their own packages from individual fuel analysis tests.

ASTM D6751-10

Test	Method	Volume
Acid Number	ASTM D974-08	2000 ml
Ramsbottom Carbon Residue	ASTM D524-10	
Cetane Number*	ASTM D613	
Cloud Point	ASTM D2500-99	
Cold Soak Filtration	ASTM D7501-09	
Copper Strip Corrosion	ASTM D130-04	
Distillation, 90% Recovery	ASTM D1160-06	
Flash Point	ASTM D93-10	
Glycerin	ASTM D6584-00	
Kinematic Viscosity @40C	ASTM D445	
Metals	EN14538 & D4951	
Oxidation Stability	EN14112	
Sulfated Ash	ASTM D874	
Sulfur Content by	ASTM D5453-03a	
UV Fluorescence		
Water & Sediment	ASTM D2709	

ASTM D6751-10 Modified

Test	Method	Volume
Acid Number	ASTM D974-08	1000 ml
Carbon Residue	ASTM D524-10	
Cloud Point	ASTM D2500-99	
Cold Soak Filtration	ASTM D7501-09	
Copper Strip Corrosion	ASTM D130-04	
Distillation, 90% Recovery	ASTM D1160-06	
Flash Point	ASTM D93-10	
Glycerin	ASTM D6584-00	
Kinematic Viscosity @40C	ASTM D445	
Metals	EN14538 & D4951	
Oxidation Stability	EN14112	
Sulfated Ash	ASTM D874	
Sulfur Content by	ASTM D5453-03a	
UV Fluorescence		
Water & Sediment	ASTM D2709	

* Centane Index D976 may not be used to approximate the cetane number with biodiesel or its blends. There is no substantiating data to support the calculation of cetane index with biodiesel or biodiesel blends.

ASTM D7467-09 B6-B20

Test	Method	Volume
Acid Number	ASTM D974-08	2000 ml
Biodiesel Content	ASTM D7371-07	
Cloud Point	ASTM D2500-99	
Copper Strip Corrosion	ASTM D130-04	
Distillation, 90% Recovery	ASTM D1160-06	
Flash Point	ASTM D93-10	
Glycerin	ASTM D6584-00	
Kinematic Viscosity @40C	ASTM D445	
Lubricity	ASTM D6079	
Metals	EN14538 & D4951	
Oxidation Stability	EN14112	
Ramsbottom Carbon Residue	ASTM D524-10	
Sulfated Ash	ASTM D874	
Sulfur Content by	ASTM D5453-03a	
UV Fluorescence		

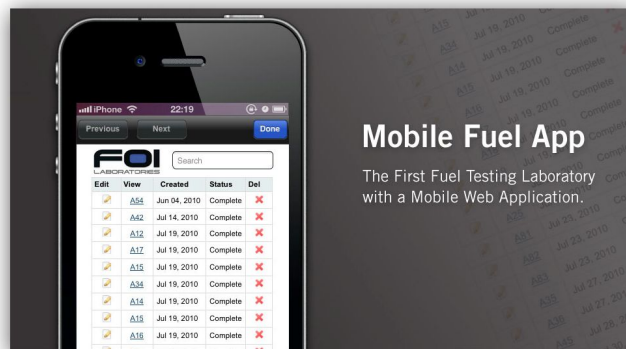
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Test	Method	Volume
Acid Number	ASTM D974-08	1000 ml
Cloud Point	ASTM D2500-99	
Flash Point	ASTM D93-10	
Glycerin	ASTM D6584-00	
Methanol Content	ASTM D14110	
Sulfur Content by	ASTM D5453-03a	
UV Fluorescence		
Thermal Stability	ASTM D6468	
Water & Sediment	ASTM D2709	

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**Ask about our
Mobile Fuel App Today!**



Mobile Fuel App

The First Fuel Testing Laboratory with a Mobile Web Application.