



Certificate of Analysis

Vessel / Object: B68A7B1
 Location: Newport Biodiesel
 Job Type: Submitted Sample - From Clients/Terminals
 Product Grade: Bio Diesel
 Client Reference:

Job No: 10-15-02338
 Date Sampled: 03/11/15 1834
 Date Tested: 3/11/2015
 Date Reported: 3/13/2015

Sample Number: 101502338-001 Sample Description: B68A7B1
 Sample Type: Submitted

<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>
ASTM D 4052	Gravity API, 60 Deg. °F			28.4	°API
ASTM D4052	Specific Gravity			0.8849	g/cm ³
ASTM D 93C	Flash Point	93		152	°C
ASTM D 445	Kinematic Viscosity @ 40°C	1.9	6	4.951	mm ² /S
ASTM D 5453	Sulfur by UVF		15	5.7	mg/kg
ASTM D 874	Sulfated Ash content		0.020	<0.01	% mass
ASTM D 4530	Carbon Residue		0.050	0.03	% mass
ASTM D 613	Cetane Number	47		48.6	
ASTM D 2709	Water & Sediments		0.050	<0.05	Vol.%
ASTM D 2500	Cloud Point			0	°C
ASTM D 130	Copper Strip Corrosion, 3 hrs @ 50°C		3	1a	
EN 15751	Oxidation Stability, Hours @ 110°C	3		>3	Hrs @ 110°C
ASTM D 7501	Cold Soak Filterability		200 #(Note 1)	146	sec
ASTM D 664	Acid Number		0.50	0.206	mg KOH/g
ASTM D 6584	Free Glycerin		0.020	0.012	% mass
	Monoglyceride Content		0.40 (Note 2)	0.554	
	Diglyceride Content			0.163	
	Triglyceride Content			0.556	
	Total Glycerin		0.240	0.238	
ASTM D1160	Distillation (Atm. Eq. Temperature)				
	90% Recovered, °C		360	356	°C
EN 14538	Na & K (Combined)		5	<5	ppm
EN 14538	Ca & Mg (Combined)		5	<5	ppm
ASTM D 4951	Phosphorus Content		0.001	<0.0005	% mass
EN 14110	Methanol Content		0.2	Waived	% mass

Note 1: Max is 360 Sec for B100 Intended for Grade No. 2-B

Note 2: No max limit for B100 Intended for Grade No. 2-B

Reported By: Shirley Penarete
 Title: Laboratory Manager