



# Midwest Laboratories Inc.<sup>®</sup>

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121  
www.midwestlabs.com

## REPORT OF ANALYSIS

For: (28386) INTEGRITY BIOFUELS  
(765)763-6020

This report supersedes all prior reports for the following reason(s): amended report

Report Number  
12-108-2037 v2

**Mail to:** INTEGRITY BIOFUELS  
KARI CROWDER  
780 E INDUSTRIAL DRIVE  
MORRISTOWN IN 46161

Date Reported: 05/01/12  
Date Received: 04/09/12  
Date Sampled: 04/03/12  
Time Sampled: 1030

B-100 BIODIESEL

Lab number: 1976725    Sample ID: F0050T20040212

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date	Verified-Date
Oxidation stability	5.0	hours	0.1	EN 15751	jlc-04/17	jlc-04/17
Flashpoint	118	deg C	4	ASTM D93	jlc-04/13	jlc-04/17
Water and Sediment	n.d.	% volume	0.010	ASTM D2709	jlc-04/10	jlc-04/17
Viscosity Kinematic	4.33	mm <sup>2</sup> /s	1.00	ASTM D445	jlc-04/17	jlc-04/17
Sulfated Ash	n.d.	% mass	0.01	ASTM D874	jlc-04/13	jlc-04/17
Sulfur (total)	2.6	ppm	0.5	ASTM D5453	lma-04/12	jlc-04/17
Copper corrosion	1a	3hr. 50 deg C		ASTM D130	jlc-04/12	jlc-04/17
Cloud Point	2.0	deg C		ASTM D2500	jlc-04/10	jlc-04/17
Carbon Residue	n.d.	% mass	0.020	ASTM D4530	jlc-04/13	jlc-04/17
Acid Number	0.26	mg KOH/g	0.05	ASTM D664	jlc-04/12	jlc-04/17
Free Glycerin	0.006	% mass	0.001	ASTM D6584	jlc-04/11	jlc-04/17
Total Glycerin	0.099	% mass	0.001	ASTM D6584	jlc-04/11	jlc-04/17
Monoglyceride as Monoolein	0.070	%	0.001	ASTM D6584	jlc-04/11	jlc-04/17
Diglyceride as Diolein	0.015	%	0.001	ASTM D6584	jlc-04/11	jlc-04/17
Triglycerides as Triolein	0.008	%	0.001	ASTM D6584	jlc-04/11	jlc-04/17
Boiling Temp - Dist Temp	338	deg C	1	ASTM D1160	jlc-04/13	jlc-04/17
Phosphorus	n.d.	ppm	1.00	ASTM 4951/ICP	akj-04/12	kkh-04/12
Magnesium	n.d.	ppm	1.00	EN 14538 ICP-OES	akj-04/12	kkh-04/12
Potassium	n.d.	ppm	4.00	EN 14538 ICP-OES	akj-04/12	kkh-04/12



13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121  
www.midwestlabs.com

**REPORT OF ANALYSIS**

Account: 28386 INTEGRITY BIOFUELS

Report Number: 12-108-2037 v2

Analysis	Level		Detection		Analyst- Date	Verified- Date
	Found	Units	Limit	Method		
Calcium	n.d.	ppm	1.00	EN 14538 ICP-OES	akj-04/12	kkh-04/12
Methanol	0.06	%	0.01	EN 14110	jlc-04/13	jlc-04/17
Sodium	1.03	ppm	1.00	EN 14538 ICP-OES	akj-04/12	kkh-04/12
Biodiesel Visual Inspection	#1		NA	ASTM D4176	jlc-04/10	jlc-04/17
Cold Soak Test	103	sec	20	ASTM D7501	jlc-04/12	jlc-04/17

Notes:

n.d. - Not Detected.  
Cetane number determination was performed by a subcontracted laboratory.

For questions contact

Heather Ramig  
Client Service Representative  
heather@midwestlabs.com (402)829-9891