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Certificate of Analysis

Report #: 09-117-2178

Reported to:	HEARTLAND BIODIESEL 103 MORTON ST MISSOURI VALLEY IA 51555	Acct #: 24576
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Lab #: 1567576

Sample ID: #8313

Analysis	Level Found	Status	ASTM 6751 Limits	Method	Date of Analysis
Cetane Number*	54	Pass	47 min.	ASTM D613-05	05/04/09
Oxidation Stability (hrs)	24.9	Pass	3 min	EN 14112	04/29/09
Flash Point (deg C)	>150	Pass	93 min.	ASTM D93-07	05/01/09
Methanol (% volume)	n.d.	NA	0.2 max	Headspace EN 14110	04/29/09
Water and Sediment (% volume)	<0.01	Pass	0.05 max	ASTM D2709-96 (2006)	04/30/09
Viscosity Kinematic (mm ² /s)	4.45	Pass	1.9-6.0	ASTM D445-06	04/30/09
Sulfated Ash (% mass)	<0.01	Pass	0.02 max	ASTM D874-07	04/30/09
Sulfur (total) (ppm)	2.5	Pass	15 ppm	ASTM D5453-08b	04/29/09
Copper corrosion (3hr 50°C)	1a	Pass	No. 3 max	ASTM D130-04e1	04/29/09
Cloud Point (deg C)	2.5	NA	Report	ASTM D2500-05	04/30/09
Carbon Residue (% mass)	<0.02	Pass	0.05 max	ASTM D4530-07	04/30/09
Acid Number (mg KOH/g)	0.25	Pass	0.50 max	ASTM D664-07	04/29/09
Free Glycerine (% mass)	0.005	Pass	0.020 max	ASTM D6584-07	04/23/09
Total Glycerine (% mass)	0.201	Pass	0.240 max	ASTM D6584-07	04/23/09
Monoglycedride (% mass)	0.12			ASTM D6584-07	04/23/09
Diglyceride (% mass)	0.065			ASTM D6584-07	04/23/09
Triglycerides (% mass)	0.011			ASTM D6584-07	04/23/09
Boiling Temp-Dist Temp (deg C)	338	Pass	360 max	ASTM D1160-06	04/27/09
Phosphorus (% mass)	<0.0001	Pass	0.001 max	ASTM D4951-06	04/29/09
Magnesium/Calcium (ppm)	<1.00	Pass	5 max	EN 14538 ICP/OES	04/29/09
Potassium/Sodium (ppm)	<4.00	Pass	5 max	EN 14538 ICP/OES	04/29/09
Biodiesel Visual Inspection	#1				04/30/09
Cold Soak Filtration	114	Pass	360 sec. max	ASTM D 7501	04/29/09

Heather Ramig
Client Services - Midwest Laboratories, Inc.

* Cetane Number analysis is performed by a subcontracted Laboratory.
Methods revision are effective as of October 3, 2008