



Laboratory Services

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Report For: Dennis Powell, Invenenergy Services

Report Date: 10/30/2009

Laboratory ID: AB03457 Revised

Location Code: HR-#2-CG

Out Fall Number:

Sample Information

Description: Hardee, #2 Fuel Oil, Cargo

Sampled By: CLIENT

Project Account Code:

Date and Time Collected: 10/07/2009 10:00:00 AM

Sample Collection Method:

Date of Sample Receipt: 10/09/2009

Laboratory Results

PARAMETER	Result	Units	MDL	Qualifier Code	Test Method	Analyst	Analysis Date & Time	Lower Limit	Upper Limit	Violation Check
API Gravity @ 60 Deg. F	32.8	Degrees API	0.1		ASTM D5002	KAPXJ	10/19/2009 11:17:00 AM			
Ash, Oil	< 0.001	mass %	0.001	U	ASTM D-482	KARXL	10/15/2009 9:15:00 AM			
Flash Point (P.M. Closed Cup Tester)	151	Degrees F.	76	I	EPA 1010	KAPXJ	10/28/2009 11:03:00 AM	100		
Fuel Bound Nitrogen in Liquid Petroleum	< 0.2	%	0.2	U	ASTM 5291	KAPXJ	10/13/2009 10:14:00 AM			
Gross Heat of Combustion, Oils, (HHV)	135866	BTU/Gal.	1		Calculation	KAPXJ	10/20/2009 3:00:00 PM	137600		<input checked="" type="checkbox"/>
Gross Heat of Combustion, Oils, (HHV)	18936	BTU/Lb.	1		ASTM D-240	KAPXJ	10/20/2009 3:00:00 PM			
Kinematic Viscosity	2.90	cSt			ASTM D445	KARXL	10/15/2009 10:00:00 AM			
Lead in #2 Oil	< 0.0044	mg/kg	0.0044	U	EPA 6010	KAMCR	10/28/2009 11:10:00 AM			
Low Level Sulfur in Petroleum Products	345	ppm	1.0		ASTM D-5453-00	KAEMD	10/12/2009 10:17:00 AM			
Low Level Sulfur in Petroleum Products(%)	0.0345	%	0.0001		ASTM D-5453-00	KAEMD	10/12/2009 10:17:00 AM			
Pounds / Gallon @ 60 Deg. F	7.1750000	Lbs./Gal.	0.001		ASTM D 1250-80	KAPXJ	10/19/2009 1:20:00 PM		9.5	
Pounds SO2 / Million BTU, Oil	0.03596	Lbs. SO2/MMBTU			Calculated	KAPAP	10/26/2009 10:39:00 AM			
Relative Density 60/60 Deg. F	0.8612		0.0001		ASTM D-1298	KAPXJ	10/19/2009 1:20:00 PM		0.876	
Saybolt Univ. Viscosity @ 100 F	35.6	SUS	0.1		ASTM D-88	KARXL	10/15/2009 10:45:00 AM	32.6	40.2	
Sodium	0.407	ppm	0.03		ASTM D-3605	KAQVP	10/28/2009 3:48:00 PM			
Vanadium in #2 Oil	< 0.05	mg/kg	0.05	U	EPA 6010	KAMCR	10/28/2009 11:10:00 AM			
Water and Sediment, by Volume	< 0.05	% by Volume	0.05	U	ASTM D2709	KARXL	10/15/2009 9:30:00 AM		0.05	

Laboratory Services certifies that the test results in this report meet all requirements of the NELAC standards, unless indicated otherwise in the body of the report. Unless otherwise noted, all methods followed are per the most current published version of 40 CFR Part 136, Table B. Results reported on this report pertain to the above referenced sample only.