Intertek Caleb Brett

78 Pleasant Avenue, South Portland, ME

REPORT OF ANALYSIS

Vessel / Barge	Penn 120
Port/Terminal	Sprague, Searsport, ME
Sprague Reference	V-09-00064
ICB Reference	US380-0001300
Date Sample Taken	01/18/09
Date Submitted	01/18/09
Date Tested	01/18/09
Sample Designated a	# 6 Fuel Oil (0.5%)
Drawn By	Intertek Caleb Brett
Representing	Tk. 1, After Discharge

Slate **A**

	Test	Method	Results	Units
Upper	Gravity	ASTM D 4052	**13.3**	API @ 60F
	Viscosity at 122 F	ASTM D 445/2161	**296.8 / 140**	cSt / SFS
Middle	Gravity	ASTM D 4052	**13.5**	API @ 60F
	Viscosity at 122 F	ASTM D 445/2161	**282.4 / 133**	cSt / SFS
Lower	Gravity	ASTM D 4052	**13.5**	API @ 60F
	Viscosity at 122 F	ASTM D 445/2161	**282.0 / 133**	cSt / SFS
Composite	Flash Point (PMCC)	ASTM D 93B	**>200**	Degrees F
	Pour Point	ASTM D 97	**+21 / +70**	Degrees C / F
	Sediment & Water by Cen	ASTM D 1796	**0.25**	Volume %
	Sulfur	ASTM D 4294	**0.492**	Weight %
	Ash	ASTM D 482	**0.074**	Weight %
	Water by Distillation	ASTM D 95	**0.1**	Volume %
	Sediment by Extraction	ASTM D 473	**0.04**	Weight %
	Heat of Combustion	ASTM D-240	**18,616**	Btu/lb
	Gravity	Table 8	**8.138**	lb./gal
	Heat of Combustion	ASTM D-240	**151,497**	Btu/gal
	Nitrogen	ASTM D-5762	**0.35**	Weight %
	Vanadium	ASTM D-5863B	**5**	ppm
	Sodium	ASTM D-5863B	**16**	ppm
	Aluminum	ASTM D-5184B	**149**	ppm
	Silicon	ASTM D-5184B	**156**	ppm
	Asphaltenes	IP-143	**1.1**	Weight %
	Conradson Carbon Residu	ASTM D-189	**9.2**	Weight %

Michael Holland, Lab Supervisor
Intertek Caleb Brett, South Portland, ME

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