INSPECTORATE
ISO 9001:2000 Certified

Certificate of Analysis

Vessel / Shore Tank :	**Tank 1**	Sample Submitted By :	IAC Portland
Product :	**#6 Fuel Oil**	Analysis Performed By :	IAC Portland
Client Reference :		Date Sampled :	14-Feb-2009
Terminal / Port / Office :	SPRAGUE PORTSMOUTH	Date Reported :	16-Feb-2009
Job ID :	0020-0001333	Submission ID :	2009-020-00166
Sample Details :	After "Emerald Star"		
Comments :			

		1 UML Composite	
	Sample Number	2009-020-00166-015	
Method	Test	Result	Specification
ASTM D287	API Gravity, ° API-U,M,L Calc Avg	14.0	10 Min
ASTM D1250	Density at 15°C	0.9719	
ASTM D4294	Sulfur Content, mass %-U,M,L Calc Avg	1.20	2.00 Max
ASTM D445	Test Temperature	50°C (122°F)	
	Kinematic Viscosity, cSt-U,M,L Calc Avg	535.5	
ASTM D2161	Test Temperature, ° F	122	
	Saybolt Furol Seconds, sec-U,M,L Calc Avg	253	75-300 (ssf)
ASTM D95	Water, % (v/v)	0.05	1.0 Max
ASTM D473	Sediment Content, mass % / vol %	0.06 / 0.03	0.1 Max
ASTM D1796	Water and Sediment, % (v/v)	0.050	1.0 Max
ASTM D93 Proc. B	Manual / Automated	Automatic	
	Flash Point, ° C / ° F	82.0 / 180	150 Min (F)
ASTM D482	Ash Content, mass %	0.0346	0.1 Max
IP 470	Aluminum, ppm (mg/kg)	80	
	Silicon, ppm (mg/kg)	53	
	Sodium, ppm (mg/kg)	42	60 Max
	Vanadium, ppm (mg/kg)	21	300 Max
ASTM D5762	Nitrogen, wt%	0.3181	
ASTM D240	Gross Heat of Combustion Unit Conversion, BTU/lb / BTU/gal	18675 / 151249	
ASTM D4530	Carbon Residue, % (m/m)	10.2	21 Max
ASTM D97	Pour Point, ° C / ° F	12 / 54	60 Max (F)
ASTM D6560	Asphaltenes, % (m/m)	2.0	14 Max
ASTM D287	API Gravity, ° API		
	Upper	14.0	
	Middle	14.0	
	Lower	14.0	
ASTM D4294	Sulfur Content, mass %		
	Upper	1.20	
	Middle	1.20	
	Lower	1.20	
ASTM D445	Kinematic Viscosity, cSt		
	Upper	534.4	
	Middle	537.7	
	Lower	534.4	

For Inspectorate: Signature On File
Richard Kennedy

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