INSPECTORATE
ISO 9001:2000 Certified

Certificate of Analysis

Vessel / Shore Tank :	**TANK 7**	Sample Submitted By :	IAC Portland
Product :	#6 Fuel Oil	Analysis Performed By :	IAC Portland
Client Reference :		Date Sampled :	05-Apr-2008
Terminal / Port / Office :	SPRAGUE ROLLING MILLS	Date Reported :	07-Apr-2008
Job ID :	0020-0000304	Submission ID :	2008-020-00365
Sample Details :	Shore Tank Analysis		
Comments :			

		UML Composite	
	Sample Number	2008-020-00365-001	
Method	Test	**Result**	**Specification**
ASTM D287	API Gravity, ° APIU,M,L Calc Avg	11.2	10.0 Min
ASTM D1250	Density at 15°C	0.9910	
ASTM D4294	Sulfur Content, mass %-U,M,L Calc Avg	1.40	2.00 Max
ASTM D445	Test Temperature	50°C (122°F)	
	Kinematic Viscosity, cSt-U,M,L Calc Avg	485.1	
ASTM D2161	Test Temperature, ° F	122	
	Saybolt Furol Seconds, sec	229	75-300
ASTM D95	Water, % (v/v)	0.00	1.0 Max
ASTM D473	Sediment Content, mass % / vol %	<0.01 / <0.01	0.1 Max
ASTM D1796	Water and Sediment, % (v/v)	0.100	1.0 Max
ASTM D93 Proc. B	Manual/Automated	Automatic	
	Flash Point, ° C / ° F	114.0 / 237	150 Min (F)
ASTM D482	Ash Content, mass %	0.0121	0.1 Max
IP 470	Aluminum, ppm (mg/kg)	14	
	Silicon, ppm (mg/kg)	23	
	Sodium, ppm (mg/kg)	34	60 Max
	Vanadium, ppm (mg/kg)	16	300 Max
ASTM D240	Gross Heat of Combustion Unit Conversion, BTU/l	18324 / 151320	
ASTM D6560	Asphaltenes, mass %	1.50	14 Max
ASTM D4530	Carbon Residue, % (m/m)	10.7	21 Max
ASTM D97	Pour Point, ° C / ° F	3 / 37	60 Max (F)
ASTM D287	API Gravity, ° API		
	Upper	11.2	
	Middle	11.2	
	Lower	11.3	
ASTM D4294	Sulfur Content, mass %		
	Upper	1.40	
	Middle	1.41	
	Lower	1.40	
ASTM D445	Kinematic Viscosity, cSt		
	Upper	482.2	
	Middle	486.5	
	Lower	486.5	

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS PEPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.

For Inspectorate: Signature On File

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