INSPECTORATE
ISO 9001:2008 Certified

Certificate of Analysis

Vessel / Shore Tank :	**Tank 30001**	Sample Submitted By :	IAC Portland
Product :	**#6 Fuel Oil**	Analysis Performed By :	IAC Portland
Client Reference :		Date Sampled :	01-Jul-2010
Terminal / Port / Office :	SPRAGUE RIVER ROAD	Date Reported :	02-Jul-2010
Job ID :	0020-0002882	Submission ID :	2010-020-00550
Sample Details :	After "ESTA DESGAGNES"		
Comments :			

		TANK 30001	
	Sample Number	2010-020-00550-029	
Method	Test	**Result**	**Specification**
ASTM D287	API Gravity, ° API-U,M,L Calc Avg	13.6	
ASTM D1250	Density at 15°C	0.9746	
ASTM D4294	Sulfur Content, mass %-U,M,L Calc Avg	0.956	
ASTM D445	Test Temperature	50°C (122°F)	
	Kinematic Viscosity, cSt-U,M,L Calc Avg	436.2	
ASTM D2161	Test Temperature, ° F	122	
	Saybolt Furol Seconds, sec	206	
ASTM D95	Water, % (v/v)	0.05	
ASTM D473	Sediment Content, mass % / vol %	0 / 0	
ASTM D1796	Water and Sediment, % (v/v)	0.100	
ASTM D93 Proc. B	Manual / Automated	Automatic	
	Flash Point, ° C / ° F	109.0 / 228	
ASTM D482	Ash Content, mass %	0.0240	
IP 470	Aluminum, ppm (mg/kg)	50	
	Silicon, ppm (mg/kg)	33	
	Sodium, ppm (mg/kg)	24	
	Vanadium, ppm (mg/kg)	20	
ASTM D5762	Nitrogen, ppm (ug/g)	3162	
ASTM D240	Gross Heat of Combustion, BTU/lb	18599	
	Unit Conversion, BTU/gal	151042	
ASTM D4530	Carbon Residue, % (m/m)	9.38	
ASTM D97	Pour Point, ° C / ° F	12 / 54	
ASTM D6560	Asphaltenes, % (m/m)	1.9	
ASTM D287	API Gravity, ° API		
	Upper	13.6	
	Middle	13.6	
	Lower	13.6	
ASTM D4294	Sulfur Content, mass %		
	Upper	0.957	
	Middle	0.957	
	Lower	0.953	
ASTM D445	Kinematic Viscosity, cSt		
	Upper	436.2	
	Middle	438.0	
	Lower	434.5	
*ASTM D 5291	Carbon %	88.4	
	Hydrogen%	11.1	
	Nitrogen %	0.5	

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING 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.

*Test performed by HTC

For Inspectorate: Signature On File
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