INSPECTORATE
ISO 9001:2008 Certified

Certificate of Analysis

Vessel / Shore Tank :	**Tank 30002**	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 30002	
	Sample Number	2010-020-00550-030	
Method	Test	**Result**	**Specification**
ASTM D287	API Gravity, ° API-U,M,L Calc Avg	14.1	
ASTM D1250	Density at 15°C	0.9713	
ASTM D4294	Sulfur Content, mass %-U,M,L Calc Avg	1.15	
ASTM D445	Kinematic Viscosity, cSt-U,M,L Calc Avg	475.8	
ASTM D2161	Test Temperature, ° F	122	
	Saybolt Furol Seconds, sec	225	
ASTM D95	Water, % (v/v)	0.10	
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	86.0 / 187	
ASTM D482	Ash Content, mass %	0.0083	
IP 470	Aluminum, ppm (mg/kg)	18	
	Silicon, ppm (mg/kg)	46	
	Sodium, ppm (mg/kg)	12	
	Vanadium, ppm (mg/kg)	14	
ASTM D5762	Nitrogen, ppm (ug/g)	3113	
ASTM D240	Gross Heat of Combustion, BTU/lb	18604	
	Unit Conversion, BTU/gal	150562	
ASTM D4530	Carbon Residue, % (m/m)	9.11	
ASTM D97	Pour Point, ° C / ° F	13 / 55	
ASTM D6560	Asphaltenes, % (m/m)	1.6	
ASTM D287	API Gravity, ° API		
	Upper	14.1	
	Middle	14.1	
	Lower	14.1	
ASTM D4294	Sulfur Content, mass %		
	Upper	1.15	
	Middle	1.15	
	Lower	1.15	
ASTM D445	Kinematic Viscosity, cSt		
	Upper	472.7	
	Middle	476.7	
	Lower	478.1	
*ASTM D 5291	Carbon %	88.3	
	Hydrogen%	11.2	
	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 SPRAGUES 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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