

IAC Los Angeles
 22934 Lockness Avenue
 Torrance, California 90501 USA
 T: 310-326-4429
 F: 310-326-4470



INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank : Tank Truck
Product : Jet Fuel
Client Reference : N/A
Terminal / Port / Office: MORRIS AG AIR / Blythe, CA
Job ID : 081-1500740
Sample Details : Sample and Analysis
 Comments :

Sample Submitted By : Los Angeles, CA
Analysis Performed By : IAC Los Angeles
Date Sampled : 26-Jun-2015
Date Reported : 29-Jun-2015
Submission ID : 081-1500740

		TANK TRUCK	
Sample Number		081-1500740-01-001	
Method	Test	Result	Specification
ASTM D4052	API Gravity @ 60°F	42.0	-
	Test Temperature	15.0°C (59°F)	-
	Density , kg/m³	815.3	775 - 840
ASTM D4176 Proc. 1	Pass / Fail	Pass	-
	Visual Observance	C and B	C and B
	Vortex Observance	No P and W	-
	Sample Temperature , °C	22.0	-
	Test Performed	In Laboratory	-
	Ambient Temperature , °C	22.0	-
	Acid Number , mg KOH/g	0.013	0.10 Max.
ASTM D4294	Sulfur Content , % Mass	0.0691	0.30 Max.
ASTM D1319	Aromatics , % V/V	20.3	25 Max.
ASTM D86	Observed Barometric Pressure , kPa	101.2	-
	Initial Boiling Point , °C	157.4	-
	5% Recovered , °C	168.9	-
	10% Recovered , °C	174.0	205 Max.
	20% Recovered , °C	181.6	-
	30% Recovered , °C	189.0	-
	40% Recovered , °C	196.9	-
	50% Recovered , °C	205.2	Report
	60% Recovered , °C	214.7	-
	70% Recovered , °C	224.9	-
	80% Recovered , °C	236.7	-
	90% Recovered , °C	252.4	Report
	95% Recovered , °C	265.8	-
	Endpoint , °C	285.1	300 Max.
	Recovery , %	98.9	-
	Residue , %	1.0	1.5 Max.
	Loss , %	0.1	1.5 Max.
ASTM D56	Manual / Automated	Manual	-
	Flash Point , °C / °F	43.0 / 109	38°C Min.
ASTM D5972	Freezing Point , °C / °F	-48.2 / -55	-40°C Max.
ASTM D445	Test Temperature	-20°C (-4°F)	-
	Kinematic Viscosity , cSt	4.721	8.0 Max.
ASTM D3338	Net Heat of Combustion , BTU/lb / MJ/kg	18533 / 43.108	42.8 MJ/kg Min.
	Net Heat of Combustion, Sulfur Free Basis , BTU/lb / MJ/kg	18523 / 43.084	42.8 MJ/kg Min.
ASTM D1322	Smoke Point , mm	20.0	18.0 Min.
ASTM D1840 Proc. A	Naphthalenes , % V/V	1.27	3.0 Max.
ASTM D130	Copper Corrosion at 100°C (212°F) for 2h	1a	No. 1
ASTM D3241	Test Temperature	260°C	-
	Pressure Drop , mm Hg	0.0	25 Max.
	Heater Tube Deposit Rating	<3	<3

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		TANK TRUCK	
		081-1500740-01-001	
Method	Test	Result	Specification
ASTM D3241	Color	None	No peacock or abnormal color
ASTM D381	Existent Gum Content , mg/100mL	2	7 Max.
ASTM D3948	MSEP-A	94	85 Min.
ASTM D2624	Sample Temperature , ° F	72	-
	Electrical Conductivity , pS/M	5	Report
	Fuel Temperature , ° C	22	-
ASTM D4952	Doctor Test	Positive (Sour)	-
ASTM D3227	Mercaptan Sulfur , % m/m / ppm (mg/kg)	0.0011 / 11	0.003 Max.

Product has been analyzed to the requirements outlined in the ASTM specifications, (D1655). Manufactured quality of the product is the sole responsibility of the Producer.

For Inspectorate:


Anthony Riccardi, Assistant Laboratory Manager