

IAC Fort Lauderdale
 4350 Oakes Road, Suite 521-A
 Davie, Florida 33314 United States of America
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INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank: RUBIS 89
Product: Gasoline
Client Reference:
Terminal / Port / Office: Cayman Islands
Job ID: 577541-17-0057130
Submission ID: 041-1700635
Comments :

Sample Submitted By: OfReg, Cayman Islands
Analysis Performed By: IAC Fort Lauderdale
Date Sampled: 12-Dec-2017
Date Received: 15-Dec-2017
Date Reported: 19-Dec-2017

Method	041-1700635-01-005 Test	RUBIS 89 Submitted Results
ASTM D130	Copper Corrosion at 50°C (122°F) for 3h	1a
ASTM D381	Unwashed Gum , mg/100mL	2.5
	Washed Gum , mg/100mL	<0.5
IAC ASTM D2699	Research Octane Number	95.5
IAC ASTM D2700	Motor Octane Number	85.2
IAC ASTM D4814	Antiknock Index (R+M / 2)	90.4
ASTM D4176 Proc. 2	Sample Temperature , °C	20.0
	Haze Rating	No. 1
	Vortex Observance	No Particulate & Water
	Observations	None
ASTM D86	Initial Boiling Point , ° F	87.4
	10% Evaporated , ° F	128.5
	50% Evaporated , ° F	224.7
	90% Evaporated , ° F	326.6
	Endpoint , ° F	397.8
	Recovery , %	97.5
	Residue , %	1.2
	Loss , %	1.3
ASTM D3831	Manganese , ppm (mg/L)	<0.25
ASTM D5191, ASTM Calc.	Dry Vapor Pressure Equivalent , psi / kPa	9.05 / 62.4

IAC Analysis performed by Alternate IAC Laboratory

For Inspectorate

Ian Dobinson, Laboratory Manager

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INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank: RUBIS 93
Product: Gasoline
Client Reference:
Terminal / Port / Office: Cayman Islands
Job ID: 577541-17-0057130
Submission ID: 041-1700635
 Comments :

Sample Submitted By: OfReg, Cayman Islands
Analysis Performed By: IAC Fort Lauderdale
Date Sampled: 12-Dec-2017
Date Received: 15-Dec-2017
Date Reported: 19-Dec-2017

Method	041-1700635-01-006 Test	RUBIS 93 Submitted Results
ASTM D130	Copper Corrosion at 50°C (122°F) for 3h	1a
ASTM D381	Unwashed Gum , mg/100mL	1.0
	Washed Gum , mg/100mL	<0.5
^{IAC} ASTM D2699	Research Octane Number	96.8
^{IAC} ASTM D2700	Motor Octane Number	87.9
^{IAC} ASTM D4814	Antiknock Index (R+M / 2)	92.4
ASTM D4176 Proc. 2	Sample Temperature , °C	20.0
	Haze Rating	No. 1
	Vortex Observance	No Particulate & Water
	Observations	None
ASTM D86	Initial Boiling Point , ° F	87.2
	10% Evaporated , ° F	121.9
	50% Evaporated , ° F	229.4
	90% Evaporated , ° F	325.0
	Endpoint , ° F	393.0
	Recovery , %	96.9
	Residue , %	1.5
	Loss , %	1.6
ASTM D3831	Manganese , ppm (mg/L)	<0.25
ASTM D5191, ASTM Calc.	Dry Vapor Pressure Equivalent , psi / kPa	9.34 / 64.4

^{IAC} Analysis performed by Alternate IAC Laboratory

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INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank: RUBIS ULSD
Product: Ultra Low Sulfur Diesel Fuel
Client Reference:
Terminal / Port / Office: Cayman Islands
Job ID: 577541-17-0057130
Submission ID: 041-1700635
 Comments :

Sample Submitted By: OfReg, Cayman Islands
Analysis Performed By: IAC Fort Lauderdale
Date Sampled: 12-Dec-2017
Date Received: 15-Dec-2017
Date Reported: 24-Dec-2017

Method	041-1700635-01-002 Test	RUBIS ULSD Submitted Results
ASTM D4052	API Gravity @ 60°F	36.6
	Test Temperature	15.0°C (59°F)
	Density , g/mL	0.8414
ASTM D976	Calculated Cetane Index	52.2
ASTM D86	Initial Boiling Point , °F	339.3
	10% Recovered , °F	424.2
	50% Recovered , °F	533.4
	90% Recovered , °F	630.8
	Endpoint , °F	673.1
	Recovery , %	98.6
	Residue , %	0.9
	Loss , %	0.5
ISM - Liqui-Cult	Observation Period	30 Hours
	- Bacteria , Count/mL	None
ASTM D95	Water , % V/V	0.00
ASTM D473	Sediment Content , % V/V	0.00
IAC - 060	Sediment and Water , % V/V	<0.01
ASTM D445	Test Temperature	40°C (104°F)
	Kinematic Viscosity , cSt	2.999
ASTM D7039	Sulfur Content , ppm (mg/kg)	6.8

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