

IAC Tampa
 3904 Corporex Park Dr., St.145
 Tampa, Florida 33619 United States of America
 T: 813-246-5115
 F: 813-246-9042



INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank: Pump 2
Product: Diesel
Client Reference: None
Terminal / Port / Office: Refuel Station - Grand Cayman
Job ID: 577518-17-0028782
Submission ID: 018-1700349
Comments : Seal Number: 061120

Sample Submitted By: IAC Tampa
Analysis Performed By: IAC Tampa
Date Sampled: 21-Jun-2017
Date Received: 06-Jul-2017
Date Reported: 11-Jul-2017

018-1700349-01-018		
Method	Test	Results
^{M(p)} ASTM D4176 Proc. 1	Appearance	Pass
	Visual Observance	C and B
	Vortex Observance	No P and W
	Sample Temperature, °C	24.0
	Ambient Temperature, °C	24.0
ASTM D4052	API Gravity @ 60°F	39.2
	Density at 15°C, kg/m3	828.4
ASTM D976	Calculated Cetane Index	51.4
ASTM D2709	Water and Sediment, % V/V	<0.01
ASTM D445	Test Temperature	40°C (104°F)
	Kinematic Viscosity, cSt	2.355
^{IAC} EN 14078	Fatty Acid Methyl Ester (FAME), % V/V	0.10
	Range	B
ASTM D86	Observed Barometric Pressure, mm Hg	760
	Initial Boiling Point, °F / °C	338.9 / 170.5
	5% Recovered, °F / °C	375.1 / 190.6
	10% Recovered, °F / °C	390.9 / 199.4
	20% Recovered, °F / °C	417.2 / 214.0
	30% Recovered, °F / °C	440.6 / 227.0
	40% Recovered, °F / °C	464.8 / 240.4
	50% Recovered, °F / °C	489.3 / 254.1
	60% Recovered, °F / °C	516.8 / 269.3
	70% Recovered, °F / °C	545.1 / 285.1
	80% Recovered, °F / °C	577.2 / 302.9
	90% Recovered, °F / °C	619.4 / 326.3
	95% Recovered, °F / °C	651.8 / 344.3
	Endpoint, °F / °C	668.6 / 353.7
	Residus, %	1.3
^{IAC} ASTM D2622-10	Sulfur Content, % Mass / ppm (m/m)	0.00090 / 9

^{M(p)} Modification(p) - C and B: Clear and Bright, P: Particles, W: Water

^{IAC} Analysis performed by Alternate IAC Laboratory

For Inspectorate

Matt Williams, Division Manager

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INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank: Pump 3
Product: 90 Octane Gasoline
Client Reference: None
Terminal / Port / Office: Refuel Station - Grand Cayman
Job ID: 577518-17-0028782
Submission ID: 018-1700349
Comments : Seal #. 061589, 061744, 061925

Sample Submitted By: IAC Tampa
Analysis Performed By: IAC Tampa
Date Sampled: 21-Jun-2017
Date Received: 06-Jul-2017
Date Reported: 11-Jul-2017

018-1700349-01-001		
Method	Test	Results
ASTM D130	Copper Corrosion at 50°C (122°F) for 3h	1a
	Pressure Vessel Used	Yes
ASTM D381	Unwashed Gum , mg/100mL	19.5
	Washed Gum , mg/100mL	3.0
	Filtered	No
IAC ASTM D2699 Proc. C	Research Octane Number	95.2
IAC ASTM D2700 Proc. C	Motor Octane Number	84.7
IAC ASTM D4814	Antiknock Index (R+M / 2)	90.0
ASTM D5452	Sample Volume , mL	3060
	Particulate Contamination , ppm (mg/L)	1.05
IAC ASTM D3831	Manganese , ppm (mg/L)	<0.25
ASTM D5191-13. ASTM Calc.	Dry Vapor Pressure Equivalent , psi / kPa	10.50 / 72.4
	Hazy	No
	Volume Container Size	1-L
ASTM D86	Observed Barometric Pressure , mm Hg	760
	Initial Boiling Point , ° F / ° C	89.2 / 31.8
	5% Evaporated , ° F / ° C	105.0 / 40.6
	10% Evaporated , ° F / ° C	114.1 / 45.6
	20% Evaporated , ° F / ° C	124.9 / 51.6
	30% Evaporated , ° F / ° C	135.5 / 57.5
	40% Evaporated , ° F / ° C	146.9 / 63.8
	50% Evaporated , ° F / ° C	157.3 / 69.6
	60% Evaporated , ° F / ° C	222.0 / 105.6
	70% Evaporated , ° F / ° C	254.2 / 123.4
	80% Evaporated , ° F / ° C	281.1 / 138.4
	90% Evaporated , ° F / ° C	314.3 / 156.8
	95% Evaporated , ° F / ° C	340.8 / 171.6
	Endpoint , ° F / ° C	393.7 / 200.9
	Recovery , %	96.2
	Residue , %	1.2
	Loss , %	2.6

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INSPECTORATE

Certificate of Analysis

Vessel / Shore Tank: Pump 6
Product: B20
Client Reference: None
Terminal / Port / Office: Refuel Station - Grand Cayman
Job ID: 577518-17-0028782
Submission ID: 018-1700349
Comments : Seal Number: 061131

Sample Submitted By: IAC Tampa
Analysis Performed By: IAC Tampa
Date Sampled: 21-Jun-2017
Date Received: 06-Jul-2017
Date Reported: 11-Jul-2017

		018-1700349-01-017
Method	Test	Results
^{M(p)} ASTM D4176 Proc. 1	Appearance	Pass
	Visual Observance	C and B
	Vortex Observance	No P and W
	Sample Temperature , °C	24.0
	Ambient Temperature , °C	24.0
ASTM D4052	API Gravity @ 60°F	37.3
	Density at 15°C , kg/m3	838.0
ASTM D976	Calculated Cetane Index	52.8
ASTM D2709	Water and Sediment , % V/V	<0.01
ASTM D445	Test Temperature	40°C (104°F)
	Kinematic Viscosity , cSt	2.596
^{IAC} EN 14078	Fatty Acid Methyl Ester (FAME) , % V/V	4.80
	Range	B
ASTM D86	Observed Barometric Pressure , mm Hg	760
	Initial Boiling Point , °F / °C	332.4 / 166.9
	5% Recovered , °F / °C	384.2 / 195.7
	10% Recovered , °F / °C	402.2 / 205.7
	20% Recovered , °F / °C	431.9 / 222.2
	30% Recovered , °F / °C	461.1 / 238.4
	40% Recovered , °F / °C	492.5 / 255.8
	50% Recovered , °F / °C	526.9 / 274.9
	60% Recovered , °F / °C	558.7 / 292.6
	70% Recovered , °F / °C	588.2 / 309.0
	80% Recovered , °F / °C	613.6 / 323.1
	90% Recovered , °F / °C	635.8 / 335.4
	95% Recovered , °F / °C	656.2 / 346.8
	Endpoint , °F / °C	668.4 / 353.6
	Residue , %	1.0
^{IAC} ASTM D2622-10	Sulfur Content , % Mass / ppm (m/m)	0.00080 / 8

^{M(p)} Modification(p) - C and B: Clear and Bright, P: Particles, W: Water

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