intertek
Total Quality. Assured.
5404 Bandera Rd., San Antonio, TX 78238

Report of Analysis

Conducted For:	INTERTEK AR	**Labcode:**	202374FU1
	5404 Bandera Road San Antonio,	**Alt. Code:**	TANK 62
		AR Code:	TF00348B
		Grade:	N/A
Client Code:	HF2003	**Ref No.:**	
Sponid:	N/A	**Date Completed:**	20200702
Requester:	ALFONSO, A	**Report Printed:**	20200707

Test		Result	Units	Test Method
Gravity, API		59.0900		D4052
Color/Visual		CLEAR		COLOR
Cu Strip Corrosion	COPPER STRIP RATING	1A		D130
Cu Strip Corrosion	TEST TEMPERATURE	50.0	°C	D130
Cu Strip Corrosion	TEST HOURS	3.0	Hours	D130
Density at 15°C		0.74213	g/mL	D4052
Sim. Distillation	Initial Boiling Point	148.3	°C	D2887
Sim. Distillation	5%	155.2	°C	D2887
Sim. Distillation	10%	158.4	°C	D2887
Sim. Distillation	15%	159.9	°C	D2887
Sim. Distillation	20%	161.1	°C	D2887
Sim. Distillation	30%	163.8	°C	D2887
Sim. Distillation	40%	167	°C	D2887
Sim. Distillation	50%	169.8	°C	D2887
Sim. Distillation	60%	175.1	°C	D2887
Sim. Distillation	70%	180.4	°C	D2887
Sim. Distillation	80%	186.7	°C	D2887
Sim. Distillation	90%	219.5	°C	D2887
Sim. Distillation	95%	246.3	°C	D2887
Sim. Distillation	Final Boiling Point	365.7	°C	D2887
Gum, Unwashed		12.6	mg/100 ml	D381
Gum, Washed		0	mg/100 ml	D381
Heat of Combst Gross	Heat of Combution Gross	45.968	MJ/kg	ASTM D240
Heat of Combst Gross	Heat of Combution Gross	19761	BTU / lb	ASTM D240
Heat of Combst Net	Heat of Combustion Net	44.115	MJ/kg	ASTM D240
Heat of Combst Net	Heat of Combustion Net	18965	BTU / lb	ASTM D240
ICP Acid Digestion	Silver	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Aluminum	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Boron	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Barium	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Calcium	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Cadmium	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Chromium	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Copper	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Iron	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Potassium	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Magnesium	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Manganese	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Molybdenum	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Sodium	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Nickel	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Phosphorus	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Lead	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Sulfur	0.0005	%	ICP Aqueous
ICP Acid Digestion	Antimony	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Silicon	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Tin	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Zinc	<0.0001	%	ICP Aqueous
ICP Acid Digestion	Vanadium	<0.0001	%	ICP Aqueous
Motor Octane Number		88.7000		D2700
Research Octane No.		97.0000		D2699
Oxidation Stability	Temperature	100.0	°C	D525
Oxidation Stability	Induction Time	>1000	Minutes	D525
Oxidation Stability	20% Pressure Drop From Maximum	NM	Minutes	D525
Oxygenates	METHANOL	NM	mass %	D4815
Oxygenates	METHANOL	<0.20	vol. %	D4815

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Oxygenates	ETHANOL	NM	mass %	D4815
Oxygenates	ETHANOL	<0.20	vol. %	D4815
Oxygenates	2-PROPANOL	NM	mass %	D4815
Oxygenates	2-PROPANOL	<0.20	vol. %	D4815
Oxygenates	T-BUTANOL	NM	mass %	D4815
Oxygenates	T-BUTANOL	<0.20	vol. %	D4815
Oxygenates	1-PROPANOL	NM	mass %	D4815
Oxygenates	1-PROPANOL	<0.20	vol. %	D4815
Oxygenates	MTBE	NM	mass %	D4815
Oxygenates	MTBE	<0.20	vol. %	D4815
Oxygenates	DIPE	NM	mass %	D4815
Oxygenates	DIPE	<0.20	vol. %	D4815
Oxygenates	2-BUTANOL	NM	mass %	D4815
Oxygenates	ISOBUTANOL	NM	mass %	D4815
Oxygenates	2-BUTANOL	<0.20	vol. %	D4815
Oxygenates	ISOBUTANOL	<0.20	vol. %	D4815
Oxygenates	ETBE	NM	mass %	D4815
Oxygenates	ETBE	<0.20	vol. %	D4815
Oxygenates	T-PENTANOL	NM	mass %	D4815
Oxygenates	T-PENTANOL	<0.20	vol. %	D4815
Oxygenates	1-BUTANOL	NM	mass %	D4815
Oxygenates	1-BUTANOL	<0.20	vol. %	D4815
Oxygenates	TAME	NM	mass %	D4815
Oxygenates	TAME	<0.20	vol. %	D4815
Oxygenates	TOTAL OXYGEN	<0.20	mass %	D4815
RVP	RVP	62.40	kPa	D5191
RVP	Volume Container Size	QUART		D5191
Sulfur		2.9	mg/kg	D5453
WATER AND SEDIMENT		<0.01	%	D2709

Remarks: NONE.

In the opinion of the designated chemist, the testing on this report was conducted in a valid manner according to the test method listed. Test results only apply to sample(s) provided.

J. Franklin
Director, Analytical Testing