



Certificate of Analysis

Vessel / Object: SEAFRONTIER (9457268)
Location: Port Arthur, TX / GT Gulfway (United States)
Job Type: Load
Product Grade: Mogas CUR-95 RON
Client Reference: Atlantic Trading & Marketing Inc. / HV53196

Job No: 160-24-05880
Date Sampled: 12/01/24
Date Tested: 12/04/24
Version: 1 / 07 Dec 2024 13:45

Sample 160-24-05880-069 **Sample ID, Type & Description** 3P,3S,SLOP-P,SLOP-S Volumetric Composite After Load

<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>	<u>Remarks</u>
ASTM D4052	Gravity by Digital Density Meter					
	API Gravity @60°F			58.5	°	
	Density @15°C	720.0	775.0	744.5	kg/m³	
Visual	Visual Appearance at 20°C	Clear & Bright		Clear and Bright		
ASTM D130	Copper Strip Corrosion Rating @50°C/122°F for 3 Hours		1	1A		
ASTM D86	Distillation Evaporated					
	IBP	30		31.6	°C	
	10%	40	70	51.9	°C	
	50%	80	115	90.5	°C	
	90%		180	153.2	°C	
	FBP		215	188.9	°C	
	Residue		2.0	1.0	%vol	
	% Evaporated @ 70°C			31.6	%vol	
ASTM D381	Existent Gum Content		4.0	< 1	mg/100ml	
ASTM D2699	Research Octane Number	95.0		95.0		
ASTM D2700	Motor Octane Number	85.0		85.2		
ASTM D4814	Antiknock Index (R+M)/2			90.1		
ASTM D1319	Hydrocarbon types by FIA (Aromatics, Olefins & Saturates)					
	Aromatics		35.0	27.9	%vol	
	Olefins		18.0	11.1	%vol	
	Aromatics and Olefins		45.0	39.0	%vol	
ASTM D3606 Proc. B	Benzene			0.34	%vol	
ASTM D6304A	Water Concentration			217	ppmw	
ASTM D525	Oxidation Stability @100°C	360		> 360	mins	
ASTM D4815	Oxygenates in Gasoline					
	Total Oxygen Content		2.70	2.58	%wt	
	Total Oxygenates Total oxygenates (MTBE + ETBE + ETHANOL)			14.20	%wt	
	Methanol		3.0	ND	%vol	
ASTM D5191	DVPE @ 100F° (ASTM CALC AVG)		8.7	8.50	psi	
ASTM D2622-16	Total Sulfur Content (Origin)		30	4.3	mg/kg	
ASTM D4952	Doctor Test	Negative		Negative		
ASTM D3227	Mercaptan Sulfur		0.0015	< 0.0003	%wt	
ASTM D3231	Phosphorus		1	ND	mg/L	
ASTM D3831	Manganese Content of Gasoline		0	ND	mg/L Mn	
ASTM D3237	Lead		5	ND	mg/L	
ASTM D5708A**	Silicon Content			ND	mg/kg	



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ASTM D7536	Total Chloride Concentration			ND	mg/kg	

Notes: RESULTS ARE VALID "AS AT" DATE AND LOCATION LISTED
All samples were obtained per ASTM D4057, 40 CFR1090.1335 and are retained in compliance with 40 CFR 1090.1345
**Method Modification: Reported Metal is not supported by the method

Austin Richard

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