

Certificate of Analysis

Vessel / Object: TORM ALLEGRO (9484912)

Location: Port Arthur, TX / GT Gulfway (United States)

Job Type: Loa

Sample

160-24-04062-088

Product Grade: 930I Gasoline

Client Reference: Atlantic Trading & Marketing Inc. / HV50197

Client Reference: Rubis Eastern Caribbean SRL / TORM ALLEGRO V01/24

 Job No:
 160-24-04062

 Date Sampled:
 08/17/24

Date Tested:

Version: 320 / 19 Aug 2024 18:15

08/18/24

Sample ID, Type & Description

1P-SLOP S Volumetric Composite After Load

<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	Result	<u>Units</u>	<u>Remarks</u>
Visual	Visual Appearance			C&B		
Visual	Color			Undyed		
ASTM D4052	Gravity by Digital Density Meter					
	API Gravity @60°F			51.4	۰	
	Density @15°C	720	780	773.5	kg/m³	
ASTM D86-20a	Distillation Evaporated					
	IBP			27.7	°C	
	10%		65	50.7	°C	
	50%	77	118	113.8	°C	
	90%		190	134.7	°C	
	FBP		225	153.1	°C	
	Residue		2	1.0	%vol	
ASTM D4814	Driveability Index °C		580	552		
ASTM D381	Gum Unwashed and Solvent Washed		_			
	Solvent Washed Gum Content		5	< 0.5	mg/100ml	
	Unwashed Gum Content			< 0.5	mg/100ml	
ASTM D3237	Lead		50	< 10	mg/USgal	
ASTM D2699	Research Octane Number by Compression Ratio	97		98.3		
ASTM D2700	Motor Octane Number by Compression Ratio	87		87.9		
ASTM D4814	Antiknock Index (R+M)/2	93		93.1		
ASTM D130	Copper Strip Corrosion Rating @50°C/122°F for 3 Hours		1	1A		
ASTM D3231-18	Phosphorus		5	< 0.0008	g/US gal	
ASTM D2622-16	Total Sulfur Content		0.008	< 0.0017	mass%	
ASTM D4952	Doctor Test	Negative		Negative		
ASTM D3227	Mercaptan Sulfur		0.0015	0.0003	mass%	
ASTM D3606 Proc. B	Benzene / Toluene in Gasoline by GC					
	Benzene		5	0.19	%vol	
	Instrument ID			PA023		
Visual/Olfactory	Odor	Marketable		Marketable		
ASTM D525	Oxidation Stability @100°C	240		241	mins	
ASTM D5191	DVPE @ 100F° (ASTM CALC AVG)	8.7	10	9.29	psi	
ASTM D4815	Oxygenates in Gasoline					
	Ethanol		0.2	< 0.20	%wt	
	MTBE		0.2	< 0.20	%wt	
	Total Oxygen Content		0.35	< 0.01	%wt	
ASTM D3831	Manganese Content of Gasoline		0	< 0.2	mg/L Mn	



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Method Test Min Max Result Units Remarks

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

