



Certificate of Analysis

Vessel / Object: MAERSK MARU (9581447)
Location: Port Arthur, TX / GT Gulfway (United States)
Job Type: Load
Product Grade: CUR 95 Ron Gasoline
Client Reference: Atlantic Trading & Marketing Inc. / HV50995

Job No: 160-24-02672
Date Sampled: 06/05/24
Date Tested: 06/06/24
Version: 1 / 06 Jun 2024 13:08

<u>Sample</u>		<u>Sample ID, Type & Description</u>				
160-24-02672-192		4P Running After Load				
<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>	<u>Remarks</u>
ASTM D5191	DVPE @ 100F° (ASTM EQ)			8.64	psi	
ASTM D5705##	Hydrogen Sulfide Content in Vapor			0	ppm v/v	

<u>Sample</u>		<u>Sample ID, Type & Description</u>				
160-24-02672-196		4S Running After Load				
<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>	<u>Remarks</u>
ASTM D5191	DVPE @ 100F° (ASTM EQ)			8.59	psi	
ASTM D5705##	Hydrogen Sulfide Content in Vapor			0	ppm v/v	

<u>Sample</u>		<u>Sample ID, Type & Description</u>				
160-24-02672-200		8P Running After Load				
<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>	<u>Remarks</u>
ASTM D5191	DVPE @ 100F° (ASTM EQ)			8.54	psi	
ASTM D5705##	Hydrogen Sulfide Content in Vapor			0	ppm v/v	

<u>Sample</u>		<u>Sample ID, Type & Description</u>				
160-24-02672-204		8S Running After Load				
<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>	<u>Remarks</u>
ASTM D5191	DVPE @ 100F° (ASTM EQ)			8.50	psi	
ASTM D5705##	Hydrogen Sulfide Content in Vapor			0	ppm v/v	

<u>Sample</u>		<u>Sample ID, Type & Description</u>				
160-24-02672-229		4P,4S,8P,8S 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			57.4	°	
	Density @15°C	720.0	775.0	749.1	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	50.9	°C	
	50%	80	115	89.6	°C	
	90%		180	159.6	°C	



Certificate of Analysis

Vessel / Object: MAERSK MARU (9581447)
Location: Port Arthur, TX / GT Gulfway (United States)
Job Type: Load
Product Grade: CUR 95 Ron Gasoline
Client Reference: Atlantic Trading & Marketing Inc. / HV50995

Job No: 160-24-02672
Date Sampled: 06/05/24
Date Tested: 06/06/24
Version: 1 / 06 Jun 2024 13:08

Sample 160-24-02672-229
Sample ID, Type & Description 4P,4S,8P,8S 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 D86	Distillation Evaporated					
	FBP		215	202.6	°C	
	Residue		2.0	0.9	%vol	
	% Evaporated @70°C			32.9	%vol	
ASTM D381	Existent Gum Content		4.0	< 0.5	mg/100ml	
ASTM D2699	Research Octane Number	95.0		95.2		
ASTM D2700	Motor Octane Number	85.0		85.6		
ASTM D4814	Antiknock Index (R+M)/2			90.4		
ASTM D3606-20e1	Benzene		1.00	0.41	%vol	
ASTM D1319	Hydrocarbon types by FIA (Aromatics, Olefins & Saturates)					
	Aromatics		35	30.8	%vol	
	Olefins		18.0	10.0	%vol	
	Aromatics and Olefins		45.0	40.8	%vol	
ASTM D6304A	Water Concentration			297	ppmw	
ASTM D525	Oxidation Stability @100°C	360		> 360	mins	
ASTM D4815	Oxygenates in Gasoline					
	Total Oxygen Content		2.70	2.57	%wt	
	Oxygenates			14.24	%wt	
	Methanol		3.0	< 0.20	%vol	
ASTM D5191	DVPE @ 100F° (ASTM CALC AVG)		8.7	8.57	psi	
ASTM D2622-16	Total Sulfur Content (Origin)		30	10.8	mg/kg	
ASTM D4952	Doctor Test	Negative		Negative		
ASTM D3227	Mercaptan Sulfur		0.0015	0.0005	%wt	
ASTM D3231	Phosphorus		1	< 0.20	mg/L	
ASTM D3831	Manganese Content of Gasoline		0	< 0.20	mg/L Mn	
ASTM D3237	Lead		5	< 2.5	mg/L	
ASTM D5708A**	Silicon Content			< 1.0	mg/kg	
ASTM D7536	Total Chloride Concentration			< 0.2	mg/kg	