



Certificate of Analysis

Vessel / Object: EVERGREEN MARINER (9902873)
Location: St. Croix / Limetree Bay Terminal (Virgin Islands, U.S.)
Job Type: Load
Product Grade: 93OI Gasoline
Client Reference: Antilles Trading Company SEZC

Job No: 210-24-00628
Date Sampled: 09/23/24
Date Tested: 09/23/24
Version: 1 / 23 Sep 2024 20:39

<u>Sample</u>	<u>Sample ID, Type & Description</u>					
210-24-00628-006	STK 6840 (PQM Converted COA STX-3217) Running Sample					
<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>	<u>Remarks</u>
ASTM D4176A proc. 1	Appearance	C&B		C&B		
Visual	Color	Undyed		Undyed		
ASTM D4052-18a	Gravity by Digital Density Meter					
	API Gravity @60°F			51.9	°	
	Density @15°C	720	780	757.6	kg/m³	
ASTM D86	Distillation Evaporated					
	10%		65	57.7	°C	
	50%	77	118	106.8	°C	
	90%		190	149.6	°C	
	FBP		225	186.8	°C	
	Total Recovery			96.7	%vol	
	Residue		2	1.0	%vol	
	Barometric Pressure			101.0	kPa	
ASTM D4814	Driveability Index °C		580	558		
ASTM D381	Solvent Washed Gum Content		5	< 0.5	mg/100ml	
ASTM D3237	Lead		50	N.D.	mg/USgal	
ASTM D2699	Research Octane Number					
	Procedure used			Compression Ratio		
	Research Octane Number	97		98.4		
	Room Barometric Pressure			30.0	in. Hg	
	Intake Air Temperature			125	°F	
ASTM D2700	Motor Octane Number					
	Procedure used			Compression Ratio		
	Motor Octane Number	87		87.7		
	Room Barometric Pressure			30.0	in. Hg	
	Mixture Temperature			298	°F	
ASTM D4814	Antiknock Index (R+M)/2	93		93.0		
ASTM D130	Copper Strip Corrosion Rating @50°C/122°F for 3 Hours		1	1A		
ASTM D3231#	Phosphorus		5	< 0.20	mg/L	
ASTM D5453	Total Sulfur Content (Origin)		0.15	0.0100	%wt	
ASTM D4952	Doctor Test		NEGATIVE	Negative		
ASTM D3227	Mercaptan Sulfur		0.0015	< 0.0003	mass%	
ASTM D3606-20e1	Benzene		5	0.51	%vol	
Visual/Olfactory	Odor	Marketable		Marketable		
ASTM D525-12a(2019)	Oxidation Stability @100°C	240		> 240	mins	
ASTM D5191-20	Vapor Pressure of Petroleum Products (DVPE)					
	DVPE @ 100°F (EPA EQ)	8.7	10	9.50	psi	
	Volume of Container in mL			1000		
	Sample Appearance			Not Hazy		

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ASTM D4815-15b(19) Corr to ASTM D5599	Oxygenates in Gasoline					
	Methanol			N.D.	%vol	
	Ethanol			N.D.	%vol	
	Isopropanol			N.D.	%vol	
	tert-Butanol			N.D.	%vol	
	n-Propanol			N.D.	%vol	
	MTBE		0.2	N.D.	%vol	
	sec-Butanol			N.D.	%vol	
	DIPE			N.D.	%vol	
	Isobutanol			N.D.	%vol	
	ETBE			N.D.	%vol	
	tert-Pentanol			N.D.	%vol	
	n-Butanol			N.D.	%vol	
	TAME			N.D.	%vol	
	Total Oxygenates			N.D.	%vol	
	Total Oxygen Content		0.35	N.D.	%vol	
ASTM D3831	Manganese Content of Gasoline		0.25	< 0.2	mg/L Mn	
ASTM D5845	Ethanol		0.2	N.D.	mass%	