



Certificate of Analysis

Vessel / Object: ECO MARINA DEL REY (9798349)
Location: Port Arthur, TX / GT Gulfway (United States)
Job Type: Load
Product Grade: 95 Ron Gasoline
Client Reference: Atlantic Trading & Marketing Inc. / HV60892

Job No: 160-26-02633
Date Sampled: 05/17/26
Date Tested: 05/17/26
Version: 1 / 21 May 2026 13:38

Sample
 160-26-02633-077

Sample ID, Type & Description
 1W,4W Volumetric Composite After Load

Method	Test	Min	Max	Result	Units
ASTM D4052	Gravity by Digital Density Meter				
	API Gravity @60°F			58.6	°
	Density @15°C	720	775	744.35	kg/m³
ASTM D4176A proc. 1	Appearance	C&B		C&B	
ASTM D130	Copper Strip Corrosion Rating @50°C/122°F for 3 Hours		1	1A	
ASTM D86	Distillation Evaporated				
	IBP	30		35.9	°C
	10%	40	70	53.2	°C
	50%	80	115	86.8	°C
	90%		180	140.8	°C
	FBP		215	168.9	°C
	Residue		2	1.0	%vol
	E70			34.4	%vol
ASTM D381	Solvent Washed Gum Content		4	< 0.5	mg/100ml
ASTM D4814	Antiknock Index (R+M)/2			90.8	
ASTM D2699	Research Octane Number by Compression Ratio	95		95.2	
ASTM D2700	Motor Octane Number by Compression Ratio	85		86.3	
ASTM D3606-22 Proc. B (Corr. to ASTM D5769)	Benzene		1.0	0.40	%vol
ASTM D1319-25	Hydrocarbon types by FIA (Aromatics, Olefins & Saturates)				
	Aromatics (Corrected)		35	20.0	%vol
	Olefins (Corrected)		18	7.1	%vol
ASTM D1319!!	Aromatics + Olefins		45	27.1	%vol
ASTM D6304A	Water Concentration			222	ppmw
ASTM D525	Oxidation Stability @100°C	360		> 360	mins
ASTM D4815!!	Oxygenates in Gasoline				
	Total Oxygen Content		2.7	2.6	%wt
	Oxygenates			14.30	%vol
	MTBE			14.30	%vol
	Methanol		3.0	0	%vol
ASTM D5191	DVPE @ 100F° (CALC AVG)		8.7	7.58	psi
ASTM D2622	Total Sulfur Content (Origin)		30	10.1	mg/kg
ASTM D4952	Doctor Test	Negative		Negative	
ASTM D3227	Mercaptan Sulfur		0.0015	0.0004	mass%
Visual/Olfactory	Odour	Marketable		Marketable	
ASTM D3231	Phosphorus		1	0	g/L
ASTM D3831	Manganese Content of Gasoline			0	ppmw



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<u>Sample</u>		<u>Sample ID, Type & Description</u>			
160-26-02633-077		1W,4W Volumetric Composite After Load			
<u>Method</u>	<u>Test</u>	<u>Min</u>	<u>Max</u>	<u>Result</u>	<u>Units</u>
ASTM D3237	Lead		5	0	g/L
ATM-032	Silicon Content (by ICPMS Organic Dilution)			166	ppmw
ASTM D7536##	Total Chloride Concentration			< 1.0	mg/kg

Notes: All samples used in composite's calc average RVP were run per D5191 method.
All samples were obtained per ASTM D4057, 40 CFR1090.1335 and are retained in compliance with 40 CFR 1090.1345

Austin Richard
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Lab Supervisor