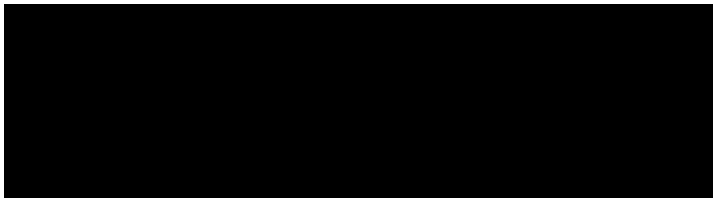


## Certificate of Analysis

<b>Client:</b>	Rubis Eastern Caribbean	<b>Client Reference Number:</b>	
<b>Job Location:</b>	Citgo Petroleum Corporation	<b>Sea Tiger V02/23</b>	
<b>Our Reference Number:</b>	US250-0023496		
<b>Lab Reference Number:</b>	2024-LACH-000176		

<b>Sample ID:</b>	2024-LACH-000176-019	<b>Date Taken:</b>	16-Feb-2024
<b>Sample Designated As:</b>	Gasoline Conventional Premium 95RO	<b>Date Submitted:</b>	09-Feb-2024
<b>Vessel/Location:</b>	SEA TIGER	<b>Date Tested:</b>	16-Feb-2024
<b>Representing:</b>	Sea Tiger 95 RON Gasoline Composite After Load		

Method	Test	Result	Unit	Specs	Pass / Fail
ASTM D4176	Appearance	Clear & Bright		Clear & Bright	Pass
ITM 5005	Visual Color	Undyed		Undyed	Pass
ASTM D4052	API Gravity @ 60°F	52.9	°API	Report	
ASTM D4052	Density @ 15°C	767.0	kg/m <sup>3</sup>	720 - 780	Pass
ASTM D86	10% Evaporated	54.5	°C	Max 65	Pass
ASTM D86	50% Evaporated	109.2	°C	77 - 118	Pass
ASTM D86	90% Evaporated	159.1	°C	Max 190	Pass
ASTM D86	Final Boiling Point	196.3	°C	Max 225	Pass
ASTM D86	Residue	1.0	Vol %	Max 2	Pass
ASTM D4814	Driveability Index	568		Max 591	Pass
ASTM D381	Average Washed Gum Content	<0.5	mg/100ml	Max 5	Pass
ASTM D3237	Lead Content	<0.010	g/USgal	Max 50	Pass
ASTM D2699	Research Octane Number	95.8		Min 95	Pass
ASTM D2700	Motor Octane Number	86.9		Min 83	Pass
ASTM D4814-X1.4	Antiknock Index (Octane Rating)	91.4		Min 89	Pass
ASTM D130	Copper Corrosion @ 50°C for 3hrs	1a		Max 1	Pass
ASTM D3231	Phosphorus Content	<0.0008	g/USgal	Max 5	Pass
ASTM D2622	Sulfur Content	0.00062	Mass %	Max 0.008	Pass
ASTM D4952	Doctor Test	Negative		Negative	Pass
ASTM D3227	Mercaptan Sulfur	< 0.0003	Mass %	Max 0.0015	Pass
ASTM D1319	Aromatics	39.1	Vol %	Report	
ASTM D3606	Benzene	1.40	Vol %	Max 5	Pass
ASTM D1296	Odor	Marketable		Marketable	Pass
ASTM D525	Induction Period @ 100°C	> 240	min	Min 240	Pass
ASTM D5191	Dry Vapor Pressure Equivalent, ASTM	8.89	psi	Max 10	Pass
ASTM D4815	Total Oxygen	N/D	Mass %	Max 0.35	Pass
ASTM D4815	MTBE	N/D	Mass %	Max 0.5	Pass
ASTM D4815	Ethanol	N/D	Mass %	Max 0.2	Pass
ASTM D3831	Manganese Content	N/D	mg/L	Max 0	Pass



Date: 2/19/24

Redacted under Sec 23 (1) FOI Act (2021 Revision)