



Certificate of Analysis

Vessel / Object: STENA IMPRESSION (9667461)
Location: Galena Park, TX / Kinder Morgan Liquids Terminals LLC (United States)
Job Type: Load
Product Grade: 95 Ron Gasoline
Client Reference: Atlantic Trading & Marketing Inc. / HV59967

Job No: 120-26-10241
Date Sampled: 07/01/26
Date Tested: 07/02/26
Version: 1 / 02 Jul 2026 08:04

Sample

120-26-10241-111

Sample ID, Type & Description

Stena Impression - Curoil 95R
 2w // 8w // Slp. P 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			57.1	°	
	Density @15°C	720	775	750.1	kg/m³	
ASTM D5191	DVPE @ 100F° (ASTM CALC AVG)		8.7	8.61	psi	
ASTM D2699	Research Octane Number					
	Procedure used			Compression Ratio		
	Research Octane Number	95.0		95.0		
	Room Barometric Pressure			30.0	in. Hg	
ASTM D2700	Intake Air Temperature			96	°F	
	Motor Octane Number					
	Procedure used			Compression Ratio		
	Motor Octane Number	85.0		85.5		
ASTM D4814	Room Barometric Pressure			30.0	in. Hg	
	Mixture Temperature			296	°F	
ASTM D4814	Antiknock Index (R+M)/2			90.2		
ASTM D86	Distillation Evaporated					
	IBP	30		32.1	°C	
	10%	40	70	53.8	°C	
	50%	80	115	94.6	°C	
	90%		180	148.6	°C	
	FBP		215	180.0	°C	
	Recovery			98.5	%vol	
	Residue		2	1.0	%vol	
	Loss			0.5	%vol	
ASTM D2622-24	Total Sulfur Content		30	23.1	ppmw	
ASTM D4815	Oxygenates in Gasoline					
	Methanol			< 0.20	%wt	
	Methanol			< 0.20	%vol	
	Ethanol			< 0.20	%wt	
	Ethanol			< 0.20	%vol	
	Isopropanol			< 0.20	%wt	
	Isopropanol			< 0.20	%vol	
	tert-Butanol			< 0.20	%wt	
	tert-Butanol			< 0.20	%vol	
	n-Propanol			< 0.20	%wt	
	n-Propanol			< 0.20	%vol	
	MTBE			13.49	%wt	
	MTBE			13.57	%vol	
	sec-Butanol			< 0.20	%wt	
	sec-Butanol			< 0.20	%vol	



Certificate of Analysis

Vessel / Object: STENA IMPRESSION (9667461)
Location: Galena Park, TX / Kinder Morgan Liquids Terminals LLC (United States)
Job Type: Load
Product Grade: 95 Ron Gasoline
Client Reference: Atlantic Trading & Marketing Inc. / HV59967

Job No: 120-26-10241
Date Sampled: 07/01/26
Date Tested: 07/02/26
Version: 1 / 02 Jul 2026 08:04

Sample
 120-26-10241-111

Sample ID, Type & Description
 Stena Impression - Curoil 95R
 2w // 8w // Slp. P Volumetric Composite After Load

Method	Test	Min	Max	Result	Units	Remarks
ASTM D4815	Oxygenates in Gasoline					
	DIPE			< 0.20	%wt	
	DIPE			< 0.20	%vol	
	Isobutanol			< 0.20	%wt	
	Isobutanol			< 0.20	%vol	
	ETBE			< 0.20	%wt	
	ETBE			< 0.20	%vol	
	tert-Pentanol			< 0.20	%wt	
	tert-Pentanol			< 0.20	%vol	
	n-Butanol			< 0.20	%wt	
	n-Butanol			< 0.20	%vol	
	TAME			< 0.20	%wt	
	TAME			< 0.20	%vol	
	Oxygenates			13.57	%vol	
	Total Oxygen Content		2.7	2.45	%wt	
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 D381	Existent Gum Content		4.0	2	mg/100ml	
ASTM D3606M	Benzene			0.51	%wt	
ASTM D1319	Hydrocarbon types by FIA (Aromatics, Olefins & Saturates)					
	Aromatics		35	29.9	%vol	
	Olefins		18.0	4.8	%vol	
	Aromatics and Olefins		45.0	34.7	%vol	
ASTM D6304A	Water Concentration			231	ppmw	
ASTM D525	Oxidation Stability @100°C	360		361	mins	
ASTM D4952	Doctor Test	Negative		Negative		
ASTM D3227	Mercaptan Sulfur		0.0015	< 0.0003	%wt	
ASTM D1296	Characteristic Odor			Nonoffensive		
ASTM D3231	Phosphorus		1	< 0.20	mg/L	
ASTM D3831	Manganese Content of Gasoline		0	< 0.25	mg/L	
ASTM D3237	Lead		5	< 2.5	mg/L	
ASTM D5184 Proc. A	Silicon			< 10	mg/kg	
ASTM D7536	Total Chloride Concentration			< 0.2	mg/kg	

Notes: All samples were obtained per ASTM D4057, 40 CFR1090.1335 and are retained in compliance with 40 CFR 1090.1345

Nikolaos Deverikos

Lab Coordinator

AmSpec LLC - 3800 Highway 225 - Pasadena - TX - 77503 - EPA ID# 1284 (AZ BMF #25467)

This document is issued by the Company subject to the Terms and Conditions at <https://www.amspecgroup.com/terms-conditions>. Any holder of this document is advised that information contained herein reflects the Company's findings at the time and place of its intervention only and within the scope of the Client's instructions. The Company's sole responsibility is to its Client and the Company disclaims any liability to third parties. Any alteration, forgery or falsification of the content or appearance of this document is unlawful.