

CERTIFICATE OF ANALYSIS N° PAS-200420

VESSEL	: LACB - 119 & 120	MOVEMENT	: Load
LOCATION	: KMI - Pasadena, TX	REF. NO.	: 25764615-1
PRODUCT	: GASOLINA REGULAR		
GRADE	: Resto del País-B2		

TK :	01P	Running	After Load	Sample N° :	8 ⁽²⁾	28-MAR-2025 Sampled at 08:00
Description : LACB - 120						
				<i>Minimum</i>	<i>Maximum</i>	<i>Remarks</i>
ASTM D5191	DVPE (ASTM)	(1L)	9.97 psi		10.0	Pass
ASTM D5191	DVPE (EPA)	(1L)	10.07 psi			
TK :	03S	Running	After Load	Sample N° :	13 ⁽²⁾	28-MAR-2025 Sampled at 08:00
Description : LACB - 120						
				<i>Minimum</i>	<i>Maximum</i>	<i>Remarks</i>
ASTM D5191	DVPE (ASTM)	(1L)	9.98 psi		10.0	Pass
ASTM D5191	DVPE (EPA)	(1L)	10.09 psi			
TK :	1P	Running	After Load	Sample N° :	14 ⁽²⁾	29-MAR-2025 Sampled at 08:30
Description : LACB - 119						
				<i>Minimum</i>	<i>Maximum</i>	<i>Remarks</i>
ASTM D5191	DVPE (ASTM)	(1L)	9.80 psi		10.0	Pass
ASTM D5191	DVPE (EPA)	(1L)	9.91 psi			
TK :	3S	Running	After Load	Sample N° :	19 ⁽²⁾	29-MAR-2025 Sampled at 08:30
Description : LACB - 119						
				<i>Minimum</i>	<i>Maximum</i>	<i>Remarks</i>
ASTM D5191	DVPE (ASTM)	(1L)	9.80 psi		10.0	Pass
ASTM D5191	DVPE (EPA)	(1L)	9.91 psi			
Volumetric Composite			After Load	Sample N° :	20	29-MAR-2025 Sampled at 10:15
Description : LACB - 119 & 120						
				<i>Minimum</i>	<i>Maximum</i>	<i>Remarks</i>
ASTM D4052	API Gravity @ 60°F		64.7 °API			
ASTM D4052	Specific Gravity 20/4 °C		0.7167	<i>Report</i>		
Visual	Color		Undyed	<i>Undyed</i>		Pass
ASTM D86	Distillation of Petroleum Products (Evaporated)					
	Initial Boiling Point		28.2 °C			
	10%		47.8 °C		65	Pass
	50%		89.5 °C	77	118	Pass

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MOVEMENT : Load
REF. NO. : 25764615-1

Volumetric Composite	After Load	Sample N° :	20	29-MAR-2025 Sampled at 10:15
Description : LACB - 119 & 120				
		<i>Minimum</i>	<i>Maximum</i>	<i>Remarks</i>
90%	165.0 °C		190	Pass
Final Boiling Point (End Point)	202.4 °C		225	Pass
Residue	1.3 Vol. %		2	Pass
ASTM D5188 Temperature @ which V/L:20	55.0 °C	50		Pass
ASTM D5191 DVPE (ASTM) - Calc. Average (1L)	9.80 psi		10.0	Pass
ASTM D2699 Octanes, RON	90.5 Rating	Report		
ASTM D2700 Octanes, MON	83.5 Rating	82.0		Pass
ASTM D4814 Octanes, (R+M)/2 (X1)	87.0 Rating	87.0		Pass
ASTM D6550 Olefins (Correlated to D1319)	10.4 Vol. %			
ASTM D3606 Benzene (Correlated to D5769) (B)	0.38 Vol. %		2.0	Pass
ASTM D5580 BTEX & Aromatics in Gasoline by GC				
Aromatics, Total	19.91 Vol. %		Report	
ASTM D5453 Sulfur	8.4 ppm wt.		30	Pass
ASTM D3227 Mercaptan Sulfur	5 mg/kg		20	Pass
ASTM D4815 Oxygenates by GC				
Methanol	ND Wt. %			
Methanol	ND Vol. %			
Ethanol	ND Wt. %			
Ethanol	ND Vol. %			
i - Propanol	ND Wt. %			
i - Propanol	ND Vol. %			
t - Butanol	ND Wt. %			
t - Butanol	ND Vol. %			
n - Propanol	ND Wt. %			
n - Propanol	ND Vol. %			
MTBE	ND Wt. %			
MTBE	ND Vol. %			
s - Butanol	ND Wt. %			
s - Butanol	ND Vol. %			
DIPE	ND Wt. %			
DIPE	ND Vol. %			
i - Butanol	ND Wt. %			
i - Butanol	ND Vol. %			
ETBE	ND Wt. %			
ETBE	ND Vol. %			
t - Pentanol	ND Wt. %			
t - Pentanol	ND Vol. %			

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Description : LACB - 119 & 120				
		<i>Minimum</i>	<i>Maximum</i>	<i>Remarks</i>
n - Butanol	ND Wt. %			
n - Butanol	ND Vol. %			
TAME	ND Wt. %			
TAME	ND Vol. %			
Oxygenates	ND Vol. %			
Oxygen	ND Wt. %		2.7	Pass
ASTM D130 Copper Corrosion @ 50 °C (3 hrs)	1a		1	Pass
ASTM D381 Gum, Solvent Unwashed	<0.5 mg/100mL		70	Pass
ASTM D381 Gum, Solvent Washed	<0.5 mg/100mL		5	Pass
ASTM D3231 Phosphorous	<0.0008 g/gal		0.004	Pass
ASTM D3831 Manganese (as MMT)	<0.25 ppm vol.		0.5	Pass
ASTM D5598 Additive Detergent Dispersant	Not Contain			
ASTM D525 Induction Period @ 100°C	>240 min	>240		Pass
ASTM D3605 Metals by AA - Organic Dilution (Scope: Ca, Na, Pb, & V)				
Ferrocene as Iron	<0.10 mg/kg(ppm)		0.5	Pass
ASTM D7111 Metals in Distillates by ICP				
Iron	<0.10 mg/kg(ppm)		0.5	Pass
ASTM D3831 Manganese	<0.3 mg/kg(ppm)			

⁽²⁾ Samples taken as per Standard Practice for Manual Sampling of Petroleum and Petroleum Products (ASTM D4057 / API MPMS Chapter 8.1) via a Closed System Sampler. Customer is advised that, due to its limitations, the samples may not fully represent the entire cargo. All testing is performed on premises by Camin Cargo Control and in accordance to the latest referenced test method unless specifically stated otherwise.

The results apply to the samples as received and specifically to the items listed on this certificate.

Data contained in this report is confidential to the addressee and shall not be disclosed to any other party without their approval. This report may not be reproduced except in full without the written consent of the Camin Cargo Control.

N.D.- None Detected: Below Lower Reporting Limit and/or Lower Detection Limit as per applicable test method and/or instrument capability.

The statement of conformity (i.e. Pass/Fail) within this document does not consider measurement uncertainty and applies the decision rules of Pass if the values are equal or are within limits and Fail if outside of limits. Limits are defined by the product's recognized specification or as determined by written client contract and/or individual job request.

End of the Report

Jimmy Alvarenga / Laboratory Shift
Leader