



CERTIFICATE OF ANALYSIS N° PAR-71653

VESSEL : Railcars
LOCATION : GT OminPort - Port Arthur, TX
PRODUCT : GASOLINA PREMIUM
GRADE : Resto del País-C3

MOVEMENT : Sampling
REF. NO. :

TK :	101	Upper	Sampling	Sample N° : 1	Sampled 04/17/19 15:40
				<i>Minimum</i>	<i>Maximum</i>
D 4052-11	API Gravity @ 60°F		62.7 °API		
D 5191 (1L)	DVPE (ASTM)		9.56 psi		10.0
TK :	101	Middle	Sampling	Sample N° : 2	Sampled 04/17/19 15:40
				<i>Minimum</i>	<i>Maximum</i>
D 4052-11	API Gravity @ 60°F		62.0 °API		
D 5191 (1L)	DVPE (ASTM)		9.48 psi		10.0
TK :	101	Lower	Sampling	Sample N° : 3	Sampled 04/17/19 15:40
				<i>Minimum</i>	<i>Maximum</i>
D 4052-11	API Gravity @ 60°F		61.7 °API		
D 5191 (1L)	DVPE (ASTM)		9.54 psi		10.0
TK :	101	UML Comp	Sampling	Sample N° : 13	Sampled 04/17/19 15:40
				<i>Minimum</i>	<i>Maximum</i>
D 4052-11	API Gravity @ 60°F		62.0 °API		
D 4052	Specific Gravity 20/4 °C		0.7264	<i>Report</i>	
Visual	Color		Undyed	<i>Undyed</i>	
D 4176 (1)	Appearance		C&B		
D 86-12	Distillation				
	Initial Boiling Point		29.4 °C		
	10%		48.2 °C		60
	50%		103.6 °C	77	116
	90%		157.2 °C		185
	Final Boiling Point (End Point)		200.4 °C		225
	Residue		1.0 Vol. %		2
D 5188	Temperature @ which V/L:20		56.8 °C	47	
D 5191 (1L)	DVPE (ASTM) - Calc. Average		9.52 psi		10.0
D 2699	Octanes, RON		97.1 Rating	95.0	
D 2700	Octanes, MON		87.4 Rating	<i>Report</i>	
D 4814-X1	Octanes, (R+M)/2		92.2 Rating	92.0	
D 1319-13	Aromatics (Dye Lot # <=974)		24.1 Vol. %		32.0
D 1319-13	Olefins		6.9 Vol. %		12.5

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

Samples taken as per Standard Practice for Manual Sampling of Petroleum and Petroleum Products (ASTM D4057 / API MPMS Chapter 8.1)

All testing performed by Camin Cargo Control.

Certified that this sample meets the relevant specification with respect to the above tests as noted.



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				<i>Minimum</i>	<i>Maximum</i>
D 3606-10	Benzene		0.34 Vol. %		2.0
D 5453-12	Sulfur		12.7 mg/kg		30
D 3227	Mercaptan Sulfur		<3 mg/kg		20
D 4815-13	Oxygenates				
	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. %		
	n - Butanol		ND Wt. %		
	n - Butanol		ND Vol. %		
	TAME		ND Wt. %		
	TAME		ND Vol. %		
	Oxygenates		ND Vol. %		Report
	Oxygen		ND Wt. %		2.7

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D 130		Copper Corrosion @ 50 °C (3 hrs)	1a		1
D 7671-A		Silver Corrosion @ 50°C/122°F (3 hrs)	0		Estándar#1
D 3237		Lead in Gasoline	<0.010 gm/gal		
D 3831		Manganese (as MMT)	<0.25 ppm		0.5
D 3231		Phosphorous	<0.0008 g/gal		0.004
D 381		Gum, Solvent Unwashed	2.5 mg/100mL		70
D 381		Gum, Solvent Washed	<0.5 mg/100mL		5
D 5598		Additive Detergent Dispersant	Not Contain		
D 525		Induction Period @ 100°C	>240 min	>240	
D 7111		Iron	<0.10 ppm		0.5

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All gauges, temperatures and volumes were obtained in accordance to the latest API and ASTM procedures.
Data contained in this report is Confidential to the addressee and should not be disclosed to any other party without approval of client(s).

Ralph B Cole

Ralph Cole / Laboratory Supervisor