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The PETCOM's responsibility under this certificate is limited to gross negligence proven by principals and will, in no case, be more than three times fees or commission.



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INSPECTION INDEPENDENT SURVEYOR S.R.L.

CERTIFICATE OF QUALITY

COD: LC-L-03-QUAL-23085

BARGE : TMS ALNIKA
CARGO : Gasoline Standard RON 95 EN 228 - 10 ppm
LOADING PORT : OIL TERMINAL CONSTANTA, ROM
DATE : 27-03-2022
BILL OF LADING NO : 182

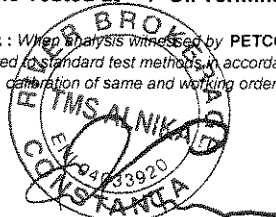
Sample description

Sample Container : 1 Liter Glass Bottle
Sample Origin : Composite shore tank 38/S - before loading
Sampling Date : 26-03-2022
Sample drawn by : Oil Terminal Laboratory jointly with PETCOM Surveyor

Property	Unit	Limits		Test method	Result
		Min.	Max.		
Density at 15 °C	Kg/m ³	720	775	EN ISO 3675 EN ISO 12185(litigation method)	754.3
Density at 15 °C (in air)	Kg/m ³	-	-	calculated	753.2
Research octane number, RON	-	95	-	EN ISO 5164	95.8
Motor octane number, MON	-	85	-	EN ISO 5163	85.2
Lead content	mg/l	-	5	EN 237	<2.5
*Benzene content	% (V/V)	-	1	EN ISO 22854	0.85
Sulphur content	mg/Kg	-	10	EN ISO 20846(litigation method) EN ISO 20884	9.0
*Manganese content	mg/l	-	2	EN 16135	<2.0
*Existent gums content (solvent washed)	mg/100ml	-	5	EN ISO 6246	2.2
Appearance	-	clear & bright		visual inspection	clear and bright
Copper strip corrosion (3 hrs at 50 °C)	rating	class 1		EN ISO 2160	1b
*Oxidation stability	minutes	360	-	EN ISO 7536	>360
Distillation:					
evaporate at 70 °C (E70)					
- summer	% (V/V)	20.0	48.0	EN ISO 3405	32
- winter	% (V/V)	22.0	50.0		-
evaporate at 100 °C (E100)	% (V/V)	46.0	71.0		56
evaporate at 150 °C (E150)	% (V/V)	75.0	-		82
Final boiling point	°C	-	210		198
Distillation residue	% (V/V)	-	2.0		1.1
Vapour pressure, VP:					
- summer	KPa	45	60	EN 13016-1	64.10
- winter	KPa	60	80		-
Volatility index, VLI= (10VP + 7E70)	-	to be reported		calculated	865.0
*Hydrocarbon type content					
- olefins	% (V/V)	-	18.0	EN ISO 22854	15.03
- aromatics	% (V/V)	-	35.0		33.15
*Oxygen content	% (m/m)	-	2.7	EN ISO 22854	1.41
*Oxygenates content					
- methanol	% (V/V)	-	1.0	EN ISO 22854	0.16
- ethanol		-	5.0		0.08
- iso-propyl alcohol		Volume blending restricted to 2.7% (m/m) maximum oxygen content			<0.03
- iso-butyl alcohol					6.00
- tert-butyl alcohol					0.01
- ethers (5 or more C atoms)					7.76
- other oxygenates					0.00

Sample Tested at : Oil Terminal / * Independent Laboratory

Remark : When analysis witnessed by PETCOM INSPECTION INDEPENDENT SURVEYOR, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with industry accepted practice. We are not responsible for all apparatus instrumentation and measuring devices, calibration of same and working order. Reagents and solutions are accepted as prepared.



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The present certificate reflects our statements at time and place of inspection.

This inspection has been carried out conscientiously to the best of our knowledge and ability, our responsibility being limited to the exercise of due care. This certificate does not absolve the parts involved of their contractual responsibilities.

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