

To Whom It May Concern

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No warranties, express or implied, including the warranty of due diligence and care mentioned elsewhere, shall extend to any party other than such named client.



Certificate of Quality

Report number : **10901/00015125.1/L/21** Date of sampling : 2021-01-20
Main Object : GUYENNE Place of sampling : Enemed Installation
Report Date : 2021-01-21 Date received : 2021-01-20
Date of issue : 2021-01-21 Date completed : 2021-01-21
Sample object : GUYENNE Sample number : 11069370
Sample type : Sampled
Sample submitted as : Unleaded Gasoline
Marked : Vessel GUYENNE Multiple Tank Composite Before Discharge

NAME	METHOD	UNIT	SPECS		RESULT
			Min	Max	
Appearance	Visual	-		Clear & Bright	CL & BR
Benzene	Q EN 238	vol %		1.0	0.7
Copper Strip Corrosion (3 hrs / 50 °C)	Q ASTM D 130	-		1	1A
Density at 15 °C	Q ASTM D 4052	kg/L	0.720	0.775	0.7278
Gum Existent	ASTM D 381	mg/100ml		5	Below 0.5
Oxidation Stability	Q ASTM D 525	min	360		Above 360
Lead (Pb)	Q ASTM D 3237	mg/L		0.005	0.001
Motor Octane Number (MON)	ASTM D 2700	-	85.0		85.5
Distillation	ASTM D 86				
Initial boiling point		°C	Report		32.8
10% Recovered		°C	Report		55.1
50% Recovered		°C	Report		81.2
90% Recovered		°C	Report		142.5
Final boiling point		°C		210.0	184.7
Residue		vol %		2.0	1.1
Evaporated at 70 °C		vol %	20.0	48.0	39.6
Evaporated at 100 °C		vol %	46.0	71.0	67.8
Evaporated at 150 °C		vol %	75.0		94.5
R.V.P. at 100 deg. F - DVPE	Q ASTM D 5191	kPa	45	60	57.1
Research Octane Number (RON)	ASTM D 2699	-	95.0		95.3
Sulphur	Q ASTM D 2622	mg/kg		10	8.0
FIA (hydrocarbon types)	ASTM D 1319				
Aromatics		vol %		35.0	24.81
Olefins		vol %		18.0	9.95
Oxygenates	EN 13132				
Methanol		vol %		3	Below 0.1
Ethanol		vol %		5	Below 0.1
iso-Propanol		vol %	Report		Below 0.1
iso-Butanol		vol %	Report		Below 0.1
tert-Butanol		vol %	Report		Below 0.1
Ethers (C5 or more)		vol %	Report		6.55

All results in this report refer to the sample(s) tested as taken or submitted like specified in this Analysis report. Uncertainties, available on request, apply in the evaluation of the test results. All tests are conducted according to the latest version of the methods, unless another version is specifically indicated. Where available and for convenience purposes, the tested sample has been checked for compliance with supplied specifications, without accepting any liability. In case of dispute or concern, we refer to the interpretation of test results as defined in ASTM D3244, IP 367, ISO 4259 or GOST 33701. This report shall not be partially copied and reproduced without the written permission of the laboratory.

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NAME	METHOD	UNIT	SPECS		RESULT
			Min	Max	
Other oxygenates		vol %	Report		Below 0.1
Total organically bound oxygen		mass %		2.7	1.20
Manganese (Mn)	ASTM D 3831	mg/l		2	1

Q: ISO 17025 accreditation is applicable for tests followed with a 'Q'

Lab comments:

The results are referred to the tested sample.

Q Analysis accredited by NAB-MALTA. Testing laboratory Reg No 007.

All tests are reported according to the latest method version available.

If required, estimated expanded uncertainty U with coverage factor=2 corresponding to level of probability of about 95%, can be provided.

Sampling performed according to ASTM D5842-14.

~ Due to restrictions enforced by terminal/refinery/vessels management and/or local laws and regulations, samples of concerned object have been taken via a closed/restricted sampling system.

With reference to API MPMS 12.11 it should be noted that when taking vessel samples, it may not be possible to obtain representative samples of nonhomogeneous cargoes due to the inherent nature of the cargo and the sampling restrictions.

Signed by: Francois Zammit - Laboratory Manager

Issued by: Saybolt Malta Ltd

Place and date of issue: Kalafrana - 2021-01-21

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