

To Whom It May Concern

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Certificate of Quality

Report number : **10901/00015178.3/L/21** Submitted date : 2021-03-11
Main Object : analysis Sample submitted at : Enemed Installation
Report Date : 2021-03-16 Date received : 2021-03-11
Date of issue : 2021-03-16 Date completed : 2021-03-16
Sample object : analysis Sample number : 11299838
Sample type : Submitted
Sample submitted as : Gasoline
Marked : Product Representing E Power

NAME	METHOD	UNIT	SPECS		RESULT
			Min	Max	
Motor Octane Number (MON)	ASTM D 2700	-	85.0		88.0
Research Octane Number (RON)	ASTM D 2699	-	95.0		98.5
Appearance	Visual	-		Clear & Bright	Clear & Bright
Benzene	Q EN 238	vol %		1.0	0.96
Copper Strip Corrosion (3 hrs / 50 °C)	Q ASTM D 130	-		1	1B
Density at 15 °C	Q ASTM D 4052	kg/L	0.729	0.775	0.7374
Gum Existent	ASTM D 381	mg/100ml		5	Below 0.5
Oxidation Stability	ASTM D 525	min	360		Above 360
Lead (Pb)	Q ASTM D 3237	mg/L		0.005	Below 0.001
Distillation	ASTM D 86				
Initial boiling point		°C	Report		28.3
10% Recovered		°C	Report		47.6
50% Recovered		°C	Report		90.3
90% Recovered		°C	Report		152.0
Final boiling point		°C		210.0	185.2
Residue		vol %		2.0	1.1
Evaporated at 70 °C		vol %	22.0	50.0	36.2
Evaporated at 100 °C		vol %	46.0	71.0	59.4
Evaporated at 150 °C		vol %	75.0		89.2
R.V.P. at 100 deg. F - DVPE	Q ASTM D 5191	kPa	50	80	75.5
Sulphur	Q ASTM D 2622	mg/kg		10	7.0
FIA (hydrocarbon types)	ASTM D 1319				
Aromatics		vol %		35.0	33.12
Olefins		vol %		18.0	10.11
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		6.03

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	1.15
Manganese (Mn)	ASTM D 3831	mg/l		2	Below 0.5

*Q: Test with a Q are part of the scope of the ISO 17025 accreditation under number 007 of the NAB-MALTA.
Test Methods are as per latest certificate issued by NAB-MALTA. For further details please go to
<https://nab.gov.mt/en/Documents/Accredited%20Cabs/007-SML-Accreditation-Scope.pdf>*

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.

Signed by: Francois Zammit - Laboratory Manager
Issued by: Saybolt Malta Ltd
Place and date of issue: Kalafrana - 2021-03-16

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