



MULLER FINANCIAL & TRADING SA
Rue de la Cloche 8
CH-1201 Geneve
SWITZERLAND

ANALYTICAL REPORT SR-1495908.01.A09

P.1/2

grade	GASOLINE
sample 108	SEAL SGS1171577 FUEL STATION 153 VALIASR STREET REGULAR GASOLINE
date received	19.02.2013

<u>Appearance</u> (SGS SPI 402)	<u>108</u> bright and clear liquid
<u>Density at 15°C, kg/m³</u> (EN ISO 12185)	736.8
<u>Copper strip corrosion, 3 hours at 50 °C</u> (EN ISO 2160)	1a
<u>Existent gum (washed), mg/100 mL</u> (ISO 6246)	2
<u>Lead, mg Pb/L</u> (EN 237)	<2.5
<u>Oxidation stability, induction period at 100°C, minutes</u> (EN ISO 7536)	>360
<u>Vapour lock index</u> (EN 228)	768
<u>Automatic distillation at 760 mm pressure</u> (EN ISO 3405)	
- percent residue	1.1
- percent volume/volume evaporated at 70 °C	29.0
- percent volume/volume evaporated at 100 °C	57.1
- percent volume/volume evaporated at 150 °C	91.3
- final boiling point, °C	196.8
<u>Dry vapour pressure on individual sample at 37.8°C, kPa</u> (EN 13016)	56.5

Gaschromatographic analysis
(EN 13132)

- Methanol, % vol	<0.17
- Ethanol, % vol	<0.17
- i-Propanol, % vol	<0.17
- t-Butanol, % vol	<0.17
- i-Butyl alcohol, % vol	<0.17
- Ethers (C5 and higher), % vol	1.6
- Other oxygenates % vol	<0.17
- Total organically bound oxygen, % wt	0.3

Gaschromatographic analysis
(EN 14517)

- Aromatics, % vol	28.8
- Benzene, % vol	1.67
- Olefins, % vol	4.7

<u>Sulphur, mg/kg</u> (ISO 20846)	231
--------------------------------------	-----

End of analytical results

Spijkensisse, the 5th March 2013
SGS Nederland B.V. - Oil, Gas & Chemicals Services



M. Audier
Laboratory Manager

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the above results. Users of the data shown on this report should refer to the latest published revisions of ASTM D-3244; IP 367; ISO 4259 and Appendix E of IP Standard Methods for Analysis and Testing when utilising the test data to determine conformance with any specification or process requirement. This Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory. In case samples are drawn under restricted or closed conditions, SGS cannot guarantee that these samples, and their subsequent test results, are representative of the actual cargo quality.