

## To Whom It May Concern

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## Certificate of Quality

Report number : **10901/00012351.2/L/17** Submitted date : 09-05-2017  
Main Object : ANALYSIS TESTING Sample submitted at : Saybolt Malta  
Report Date : 24-05-2017 Date received : 09-05-2017  
Date of issue : 11-05-2017 Date completed : 11-05-2017  
Sample object : ANALYSIS TESTING Sample number : 5130849  
Sample type : Submitted  
Sample submitted as : Unleaded Gasoline  
Marked : Received sample: E Power 9/5/17 for analysis only

| NAME                                     | METHOD      | UNIT     | SPECS  |                | RESULT         |
|--|-------------|----------|--------|----------------|----------------|
|  |             |          | Min    | Max            |                |
| Research Octane Number (RON)             | ASTM D 2699 | -        | 98.0   |                | 98.5           |
| Appearance                               | Visual      | -        |        | Clear & Bright | Clear & Bright |
| Benzene Q                                | EN 238      | vol %    |        | 1.0            | 0.8            |
| Copper Strip Corrosion (3 hrs / 50 °C) Q | ASTM D 130  | -        |        | 1              | 1A             |
| Density at 15 °C Q                       | ASTM D 4052 | kg/L     | 0.729  | 0.775          | 0.7394         |
| Gum Existent Q                           | ASTM D 381  | mg/100ml |        | 5              | 3.0            |
| Oxidation Stability Q                    | ASTM D 525  | min      | 360    |                | Above 360      |
| Lead (Pb) Q                              | ASTM D 3237 | g/l      |        | 0.005          | 0.001          |
| Motor Octane Number (MON)                | ASTM D 2700 | -        | 85.0   |                | 87.0           |
| Distillation                             | ASTM D 86   |          |        |                |                |
| Initial boiling point                    |             | °C       | Report |                | 31.7           |
| 10% Recovered                            |             | °C       | Report |                | 53.4           |
| 50% Recovered                            |             | °C       | Report |                | 97.7           |
| 90% Recovered                            |             | °C       | Report |                | 153.9          |
| Final boiling point                      |             | °C       |        | 210.0          | 184.3          |
| Residue                                  |             | vol %    |        | 2.0            | 1.0            |
| Evaporated at 70 °C                      |             | vol %    | 20.0   | 48.0           | 28.6           |
| Evaporated at 100 °C                     |             | vol %    | 46.0   | 71.0           | 53.8           |
| Evaporated at 150 °C                     |             | vol %    | 75.0   |                | 89.7           |
| R.V.P. at 100 deg. C - DVPE Q            | ASTM D 5191 | kPa      | 45.0   | 60.0           | 59.5           |
| Sulphur Q                                | ASTM D 2622 | mg/kg    |        | 10             | 7              |
| FIA (hydrocarbon types)                  | ASTM D 1319 |          |        |                |                |
| Aromatics                                |             | vol %    |        | 35.0           | 31.9           |
| Olefins                                  |             | vol %    |        | 18.0           | 10.3           |
| Oxygenates                               | EN 13132    |          |        |                |                |
| Methanol                                 |             | vol %    |        | 3              | 0.1            |
| Ethanol                                  |             | vol %    |        | 5              | 0.1            |
| iso-Propanol                             |             | vol %    | Report |                | 0.1            |
| iso-Butanol                              |             | vol %    | Report |                | 0.1            |
| tert-Butanol                             |             | vol %    | Report |                | 0.1            |
| Ethers (C5 or more)                      |             | vol %    | Report |                | 0.1            |

Uncertainties apply in the evaluation of the test results. 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 uncertainty, we refer to the interpretation of test results as defined in ASTM D3244, IP 367, ISO 4259 or GOST 33701.

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| NAME                           | METHOD      | UNIT   | SPECS  |     | RESULT     |
|--------------------------------|-------------|--------|--------|-----|------------|
|                                |             |        | Min    | Max |            |
| Other oxygenates               |             | vol %  | Report |     | 0.1        |
| Total organically bound oxygen |             | mass % |        | 2.7 | Below 0.01 |
| Manganese (Mn)                 | ASTM D 3831 | mg/l   |        | 2   | below 0.25 |

### Lab comments:

The result is referred to the tested sample.

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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.

Signed by: Clifton Friggieri - Laboratory Manager  
Issued by: Saybolt Malta Ltd  
Place and date of issue: Kalafrana - 11-05-2017

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