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**Client:** Enemed Co. Ltd.

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**CERTIFICATE OF QUALITY NO: MLA0938.1**

Vessel: CHIP  
Product: Unleaded Gasoline  
Location: Enemed Has Saptan Terminal  
Operation: Discharging

Job Number: MLA0938  
Date Sampled: 21/07/2024  
Date Testing Complete: 22/07/2024

Sample Origin: Ship's composite on arrival, composed of: 2, 4, 6 & Slop P/S - Levels Sample Number: 66017

| Test                                  | Method            | Units    | Result         | Spec           |
|---------------------------------------|-------------------|----------|----------------|----------------|
| RON                                   | ISO 5164          | Rating   | 95.4           | 95.0 min       |
| MON                                   | ISO 5163          | Rating   | 85.3           | 85.0 min       |
| Lead mg/l                             | EN 237            | mg/L     | < 2.5          | 5 max          |
| Density @ 15°C                        | * ISO 12185:2001  | kg/m3    | 747.3          | 720 - 775      |
| Density at 15°C (in Air)              | Calculation       | kg/m3    | 746.2          | TBR            |
| Sulphur UVF                           | * ISO 20846:2019  | mg/kg    | 8.4            | 10 max         |
| Oxidation Stability IP100             | ISO 7536          | min      | > 360          | 360 min        |
| Solvent washed gum content            | * ISO 6246:2017   | mg/100ml | 1              | 5 max          |
| Copper Corrosion (3 hrs @ 50°C)       | ISO 2160          | Rating   | 1A             | 1 max          |
| Appearance                            | Visual            | Rating   | Clear & Bright | Clear & Bright |
| Colour                                | Visual Inspection | -        | Undyed         | Undyed         |
| Aromatics                             | ISO 22854         | % vol    | 34.0           | 35.0 max       |
| Olefins                               | ISO 22854         | % vol    | 10.0           | 18.0 max       |
| Oxygen content                        | ISO 22854         | % mass   | < 1.50         | 2.7 max        |
| Benzene                               | ISO 22854         | % vol    | 0.86           | 1.0 max        |
| Methanol                              | ISO 22854         | % vol    | < 1.05         | 3.0 max        |
| Iso-propanol                          | ISO 22854         | % vol    | < 0.1          | TBR            |
| Iso-butanol                           | ISO 22854         | % vol    | < 0.1          | TBR            |
| Tert-butanol                          | ISO 22854         | % vol    | < 0.1          | TBR            |
| Ethanol                               | ISO 22854         | % vol    | < 0.50         | 5.0 max        |
| Ethers (containing 5 or more C atoms) | ISO 22854         | % vol    | < 0.1          | TBR            |
| Other Oxygenates                      | ISO 22854         | % vol    | < 0.8          | TBR            |
| Manganese                             | EN 16135          | mg/L     | < 1.0          | 2 max          |
| DVPE                                  | EN 13016-1        | kPa      | 53.5 (+1)      | 45.0 - 60.0    |
| Atmospheric Distillation:             | * ISO 3405:2019   | -        | -              | -              |
| Final Boiling Point                   |                   | °C       | 186.5          | 210 max        |
| Evaporated @ 70°C                     |                   | % vol    | 22.3           | 20.0 - 48.0    |
| Evaporated @ 100°C                    |                   | % vol    | 47.6           | 46.0 - 71.0    |
| Evaporated @ 150°C                    |                   | % vol    | 87.6           | 75.0 min       |
| Residue                               |                   | ml       | 1.0            | 2 max          |

The latest issue of the test methods has been used unless stated otherwise.

Please refer to ASTM D3244-18 (50% probability of acceptance applied) and IP method 367-07 Appendix E for utilisation of test data for conformance with specifications.

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Results relate only to the sample tested.

\* An NAB-MALTA Accredited testing laboratory, Reg No 010, for the indicated test methods. Specific test conditions available upon request.

(+1) Vapour Pressure result is based on a decanted composite sample which may not be truly representative due to loss of volatile components/light ends

*Wayne Zammit*  
Wayne Zammit - Laboratory Coordinator  
Authorised Signatory for Inspectorate Malta Ltd

