



**BUREAU
VERITAS**



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Client: Enemed Co. Ltd.

Page 1 of 1

CERTIFICATE OF QUALITY NO: MLA0020.3

Vessel: DIADEMA
 Product: Gasoline
 Location: Enemed Has Saptan Terminal
 Operation: Discharging

Job Number: MLA0020
 Date Sampled: 09/01/2024
 Date Tested: 09-10/01/2024

Sample Origin: Ship's composite on arrival, composed of: 1, 3, 4 & 5 P/S Sample Number: 62459

| Test | Method | Units | Result | Spec |
|---------------------------------------|------------------|----------|----------------|----------------|
| RON | ISO 5164 | Rating | 95.9 | 95.0 min |
| MON | ISO 5163 | Rating | 85.8 | 85.0 min |
| Lead mg/l | EN 237 | mg/L | < 2.5 | 5.0 max |
| Density @ 15°C | * ISO 12185:2001 | kg/m3 | 727.1 | 720.0 - 775.0 |
| Sulphur UVF | * ISO 20846:2019 | mg/kg | 9.6 | 10.0 max |
| Manganese | EN 16135 | mg/L | < 1.0 | 2.0 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 |
| Benzene | ISO 22854 | % vol | 0.76 | 1.00 max |
| Aromatics | ISO 22854 | % vol | 23.5 | 35.0 max |
| Olefins | ISO 22854 | % vol | 16.6 | 18.0 max |
| Oxygen content | ISO 22854 | % mass | 1.77 | 3.7 max |
| Methanol | ISO 22854 | % vol | < 1.05 | 3.0 max |
| Iso-propanol | ISO 22854 | % vol | < 0.1 | 12.0 max |
| Iso-butanol | ISO 22854 | % vol | < 0.1 | 15.0 max |
| Tert-butanol | ISO 22854 | % vol | < 0.1 | 15.0 max |
| Ethanol | ISO 22854 | % vol | 4.5 | 10.0 max |
| Ethers (containing 5 or more C atoms) | ISO 22854 | % vol | 0.6 | 22.0 max |
| Other Oxygenates | ISO 22854 | % vol | < 0.8 | 15.0 max |
| DVPE | EN 13016-1 | kPa | 75.8 (+1) | 50 - 80 |
| Atmospheric Distillation: | * ISO 3405:2019 | - | - | - |
| Final Boiling Point | | °C | 184.4 | 210 max |
| Evaporated @ 70°C | | % vol | 47.1 | 22.0 - 50.0 |
| Evaporated @ 100°C | | % vol | 66.9 | 46.0 - 72.0 |
| Evaporated @ 150°C | | % vol | 93.4 | 75.0 min |
| Residue | | % vol | 1.1 | 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.
 This analysis certificate may not be reproduced other than in full except with the written permission of the laboratory.
 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

Natasa Matis
 Natasa Matis - Lab Coordinator
 Authorised Signatory for Inspectorate Malta Ltd

