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Akkreditiert nach
DIN EN ISO/IEC 17025



Final Report: SP11-01214 / Client Order No.: SGS TÜV Saarland 1908799

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| | | | |
|----------------------------|--|---------------------------|---------|
| SGS Sample No.: | SP11-01214.002 | SGS SAP Order No.: | 1908724 |
| Product designated: | Gasoline E10 - Additive - Mixture | Specification: | - |
| Date received: | 15.03.2011 | | |
| Packaging: | 10 l Metal can | Sample amount: | 10 l |
| Client reference: | Fuel-Additive-Mixture | | |
| Sample Label: | Shell Super 95 E10 10 l mixed with SSL Petrol Energizer 3 ml | | |

| Test / Analyte | Test Method / Norm | Spezifikation | | Result | Unit |
|-----------------------------------|--------------------|---------------|-------|-----------------------------|-------------------|
| | | Min. | Max. | | |
| Appearance* | visual | | | | |
| Water | | -- | -- | free from undissolved water | - |
| Contamination | | -- | -- | free from solid matter | - |
| Appearance | | -- | -- | clear and bright | - |
| Density @ 15°C | DIN EN ISO 12 185 | 720.0 | 775.0 | 739.6 | kg/m ³ |
| Vapour Pressure | DIN EN 13 016-1 | | | | |
| DVPE | | 45.0 | 60.0 | 77.4 | kPa |
| Distillation | DIN EN ISO 3405 | | | | |
| evaporated @ 50°C | | -- | -- | 18.1 | % v/v |
| evaporated @ 70°C | | 20.0 | 48.0 | 46.1 | % v/v |
| evaporated @ 100°C | | 46.0 | 71.0 | 60.1 | % v/v |
| evaporated @ 150°C | | 75.0 | -- | 86.7 | % v/v |
| Final Boiling Point | | -- | 210 | 198.7 | °C |
| Residue | | -- | 2 | 0.9 | % v/v |
| Vapour Lock Index* | calc. EN 228 | -- | -- | 1097 | - |
| Oxidation stability | DIN EN ISO 7536 | 360 | -- | >360 | min |
| Ex-Gum | DIN EN ISO 6246 | | | | |
| washed | | -- | 5 | <1 | mg/100 ml |
| Copper corrosion 3h @ 50°C | DIN EN ISO 2160 | -- | 1 | 1a | Grade |
| Research Octane Number | DIN EN ISO 5164 | | | | |

* = Test method not accredited

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. Precision data are calculated on request. 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. If transmitted electronically, this report does not require a signature. This report shall not be reproduced except in full, without the written approval of the SGS laboratory. This Test Report is issued under the Company's General Conditions of Service (copy available upon request). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein.

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| Test / Analyte | Test Method / Norm | Spezification | | Result | Unit |
|-------------------------------|--------------------|---------------|------|--------|-------|
| | | Min. | Max. | | |
| Research Octane Number | DIN EN ISO 5164 | | | | |
| corrected, EN 228 | | 95.0 | -- | 96.6 | - |
| uncorrected | | -- | -- | 96.8 | - |
| Motor Octane Number | DIN EN ISO 5163 | | | | |
| corrected, EN 228 | | 85.0 | -- | 86.1 | - |
| uncorrected | | -- | -- | 86.3 | - |
| Lead | DIN EN 237 | -- | 5.0 | <0.1 | mg/l |
| Sulfur content | DIN EN ISO 20846 | -- | 10.0 | 9.9 | mg/kg |
| O-PONA | DIN EN ISO 22854 | | | | |
| Aromatics | | -- | 35.0 | 26.9 | % v/v |
| Olefines | | -- | 18.0 | 12.8 | % v/v |
| Benzene | | -- | 1.00 | 0.84 | % v/v |
| Total Ethers | | -- | 15.0 | 3.09 | % v/v |
| Methanol | | -- | 3.0 | <0.01 | % v/v |
| Ethanol | | -- | 10.0 | 6.9 | % v/v |
| Iso-Propanol | | -- | 10.0 | 0.04 | % v/v |
| Iso-Butanol | | -- | 10.0 | <0.01 | % v/v |
| tert. Butanol | | -- | 7.0 | <0.01 | % v/v |
| Total Other Oxygenates | | -- | 10.0 | <0.01 | % v/v |
| Oxygen | | -- | 3.7 | 3.10 | % m/m |

The results of analysed parameters are within limits of specifications
DIN 51626-1 and prEN228:2009.

Speyer, 28.03.2011


i. V. Simone Schmidt
Lab-Manager


i.A. Stefan Heppes
Deputy Lab Manager

* = Test method not accredited

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