

**Final Report: SP15-00259.1**

Replace for Analytical Report: SP15-00259.0 dated 25.02.2015

<b>SGS Sample No.:</b>	SP15-00259.001	<b>SGS SAP Order No.:</b>	3282920
<b>Product designated:</b>	Gasol	<b>Specification:</b>	-
<b>Date received:</b>	12.02.2015		
<b>Packaging:</b>	5 l Metall can	<b>Sample amount:</b>	5 l
<b>Client reference:</b>	Lab Blend 1		
<b>Sample Label:</b>	5 l Gasol+ 100 ml Tunap Art. 984 micro flex		

Test / Analyte	Test Method / Norm	Result	Unit
<b>Cetane Number</b>	DIN EN ISO 5165	54.0	-
<b>Cetane index</b>	DIN EN ISO 4264	48.5	-
<b>Density @ 15°C</b>	DIN EN ISO 12 185	837.2	kg/m³
<b>Aromatic Content</b>	DIN EN 12916		
Mono-Aromatics		23.3	% m/m
Di-Aromatics		4.2	% m/m
Tri+-Aromatics		0.3	% m/m
Poly-Aromatics		4.5	% m/m
Total Aromatics		27.8	% m/m
<b>Sulfur content</b>	DIN EN ISO 20 884	8.3	mg/kg
<b>Flashpoint by Pensky-Martens</b>	DIN EN ISO 2719		
Flash-Point by Pensky-Martens Procedure A		56.0	°C
<b>Ash</b>	DIN EN ISO 6245		
Ash		<0.001	% m/m
<b>Water content</b>	DIN EN ISO 12 937	62	mg/kg
<b>Copper corrosion 3h @ 50°C</b>	DIN EN ISO 2160	1a	Grade
<b>Total contamination</b>	DIN EN 12662:2014	<12	mg/kg
<b>Oxidation stability</b>	DIN EN ISO 12 205	2	g/m³
<b>Oxidation Stability</b>	DIN EN 15751		
Oxidation stability manual		>48	h
<b>Lubricity</b>	DIN EN ISO 12156-1		
HFRR WS 1.4		223	µm

\* = 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. Analytical Reports are sent as pdf file without signature. A signed document will be sent on request. 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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<b>Date received:</b>	12.02.2015		
<b>Packaging:</b>	5 l Metall can	<b>Sample amount:</b>	5 l
<b>Client reference:</b>	Lab Blend 1		
<b>Sample Label:</b>	5 l Gasol+ 100 ml Tunap Art. 984 micro flex		

Test / Analyte	Test Method / Norm	Result	Unit
<b>Viscosity</b> @ 40°C	DIN EN ISO 3104	2.360	mm <sup>2</sup> /s
<b>Cold Filter Plugging Point</b>	DIN EN 116	-29	°C
<b>Distillation</b> recovered @ 250°C	DIN EN ISO 3405	46.7	% v/v
recovered @ 350°C		96.7	% v/v
95 Vol-% recovered		342.1	°C
<b>Carbon Residue</b> of 10% Distillation Residue	DIN EN ISO 10 370	0.05	% m/m
<b>FAME in Diesel</b> FAME B in Diesel	DIN EN 14 078	6.4	% v/v

Speyer, 03.03.2015

i.V. Stefan Heppes  
Lab Manager

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Akkreditiert nach  
DIN EN ISO/IEC 17025



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<b>SGS Sample No.:</b>	SP15-00259.002	<b>SGS SAP Order No.:</b>	3282920
<b>Product designated:</b>	Gasol	<b>Specification:</b>	-
<b>Date received:</b>	12.02.2015		
<b>Packaging:</b>	5 l Metall can	<b>Sample amount:</b>	5 l
<b>Client reference:</b>	Lab Blend 2		
<b>Sample Label:</b>	5 l Gasol + 150 ml Tunap Art. 989micro flex		

Test / Analyte	Test Method / Norm	Result	Unit
<b>Cetane Number</b>	DIN EN ISO 5165	57.0	-
<b>Cetane index</b>	DIN EN ISO 4264	47.2	-
<b>Density @ 15°C</b>	DIN EN ISO 12 185	838.5	kg/m <sup>3</sup>
<b>Aromatic Content</b>	DIN EN 12916		
Mono-Aromatics		23.9	% m/m
Di-Aromatics		4.4	% m/m
Tri+-Aromatics		0.3	% m/m
Poly-Aromatics		4.7	% m/m
Total Aromatics		28.6	% m/m
<b>Sulfur content</b>	DIN EN ISO 20 884	8.7	mg/kg
<b>Flashpoint by Pensky-Martens</b>	DIN EN ISO 2719		
Flash-Point by Pensky-Martens Procedure A		59.0	°C
<b>Ash</b>	DIN EN ISO 6245		
Ash		<0.001	% m/m
<b>Water content</b>	DIN EN ISO 12 937	114	mg/kg
<b>Copper corrosion 3h @ 50°C</b>	DIN EN ISO 2160	1a	Grade
<b>Total contamination</b>	DIN EN 12662:2014	<12	mg/kg
<b>Oxidation stability</b>	DIN EN ISO 12 205	2	g/m <sup>3</sup>
<b>Oxidation Stability</b>	DIN EN 15751		
Oxidation stability manual		>48	h
<b>Lubricity</b>	DIN EN ISO 12156-1		
HFRR WS 1.4		389	µm

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<b>Product designated:</b>	Gasol	<b>Specification:</b>	-
<b>Date received:</b>	12.02.2015		
<b>Packaging:</b>	5 l Metall can	<b>Sample amount:</b>	5 l
<b>Client reference:</b>	Lab Blend 2		
<b>Sample Label:</b>	5 l Gasol + 150 ml Tunap Art. 989micro flex		

Test / Analyte	Test Method / Norm	Result	Unit
<b>Viscosity</b> @ 40°C	DIN EN ISO 3104	2.359	mm <sup>2</sup> /s
<b>Cold Filter Plugging Point</b>	DIN EN 116	-23	°C
<b>Distillation</b> recovered @ 250°C	DIN EN ISO 3405	46.3	% v/v
95 Vol-% recovered		343.6	°C
<b>Carbon Residue</b> of 10% Distillation Residue	DIN EN ISO 10 370	0.30	% m/m
<b>FAME in Diesel</b> FAME B in Diesel	DIN EN 14 078	6.4	% v/v

Speyer, 03.03.2015

i.V. Stefan Heppes  
Lab Manager

**Job comment:**

Results for all analysed parameters of analysed sample are within limits of EN590 specification.

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