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Akkreditiert nach
DIN EN ISO/IEC 17025

DAKKS

Final Report: SP11-01361 / Client Order No.: SGS TÜV Saarland 1908799

Page 3 of 4

SGS Sample No.:	SP11-01361.002	SGS SAP Order No.:	1908724
Product designated:	Gasolie-Additive-Mixture	Specification:	-
Date received:	24.03.2011		
Packaging:	10 l Metal can	Sample amount:	10 l
Client reference:	Fuel-Additive-Mixture		
Sample Label:	Shell V-Power10 l + SSL Petrol Energizer 3 ml		

Test / Analyte	Test Method / Norm	Spezification		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	742.0	kg/m ³
Vapour Pressure	DIN EN 13 016-1				
DVPE		60.0	90.0	63.9	kPa
Distillation	DIN EN ISO 3405				
evaporated @ 50°C		--	--	9.3	% v/v
evaporated @ 70°C		22.0	50.0	29.7	% v/v
evaporated @ 100°C		46.0	71.0	56.4	% v/v
evaporated @ 150°C		75.0	--	88.9	% v/v
Final Boiling Point		--	210	190.8	°C
Residue		--	2	0.9	% v/v
Vapour Lock Index	calc. EN 228	--	--	847	-
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				
corrected, EN 228		95.0	--	98.7	-

* = 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	Spezifikation		Result	Unit
		Min.	Max.		
Research Octane Number uncorrected	DIN EN ISO 5164	--	--	98.9	-
Motor Octane Number corrected, EN 228	DIN EN ISO 5163	85.0	--	88.7	-
uncorrected		--	--	88.9	-
Lead	DIN EN 237	--	5.0	<0.1	mg/l
Sulfur content	DIN EN ISO 20846	--	10.0	7.4	mg/kg
O-PONA	DIN EN ISO 22854				
Aromatics		--	35.0	28.9	% v/v
Olefines		--	18.0	10.4	% v/v
Benzene		--	1.00	0.92	% v/v
Total Ethers		--	15.0	11.04	% v/v
Methanol		--	3.0	<0.01	% v/v
Ethanol		--	5.0	0.3	% v/v
Iso-Propanol		--	10.0	0.05	% v/v
Iso-Butanol		--	10.0	<0.01	% v/v
tert. Butanol		--	7.0	0.01	% v/v
Total Other Oxygenates		--	10.0	0.07	% v/v
Oxygen		--	2.7	1.85	% m/m

The results of analysed parameters are within limits of specifications
DIN EN 228:2008.

Speyer, 31.03.2011


I.V. Simone Schmidt
Lab Manager


i.A. Stefan Heppes
Deputy Lab Manager

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