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Oil, Gas & Chemicals

CERTIFICATE of QUALITY

SGS Ref. : BU1630-0169
Sample of : Unleaded Gasoline Ron 92
Coming from : shore tank 14
Date : 8.11.2016

Lab. ref.: 6847 / 2016

Sample Identification : Shore tank composite sample before loading of m/t ARMADA PRIDE

Method	Test	Unit	Specification	Result	Verification
БДC EN ISO 5164:2014	RON *		min 92.0	92.6	pass
БДC EN ISO 5163:2014	MON *		min 82.0	82.4	pass
БДC EN ISO 12185:2003	Density at 15°C	kg/m3	720.0-775.0	750.6	pass
БДC EN ISO 20846:2012	Sulphur contennt	mg/kg	max 50	5.0	pass
БДC EN ISO 7536:2001	Oxydation stability (Induction Period)	min	min 360	>360	pass
БДC EN ISO 6246:2006	Gum content (solvent washed)	mg/100 ml	max 5.0	1.4	pass
БДC EN ISO 2160:2004	Copper strip corrosion (3 hrs at 50°C)	rating	max 1.0	1a	pass
VLM-01-12	Lead content	mg/l	max 5	<2.5	pass
БДC EN 228:2013	Appearance		clear & bright		pass
БДC EN ISO 3405:2011	Distillation				
	- % v/v evaporated at 70°C	% v/v	22.0-50.0	23.6	pass
	- % v/v evaporated at 100°C	% v/v	46.0-71.0	47.4	pass
	- % v/v evaporated at 150°C	% v/v	min 75	81.3	pass
	- FBP	°C	max 210	204.1	pass
	- Distillation residue	% v/v	max 2	1.0	pass
БДC EN ISO 13016-1:2008	Vapor pressure,DVPE **	kPa	50.0-80.0	55.8	pass
ASTM D 1319-15	Hydrocarbon content				
	- olefines	% v/v	max 21.0	14.1	pass
	- aromatics	% v/v	max 35.0	33.9	pass
БДC EN 12177+AC:2004	Benzene content	% v/v	max 1.0	1.00	pass
БДC EN 13132:2004	Oxygen content	% m/m	max 0.25	<0.03	pass

Remark: * The results for MON/RON were corrected according to EN 228 (-0.2)


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Precision parameters apply in the determination of above results if not indicated, the test methods refer to the last edition. The results are only attributable to the sample tested.

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