

**Saybolt**

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Certificate of Quality

Report number : 14201/00012032.2/L/23 Composite prep date : 22-03-2023
Main Object : PARS Terminals March liftings Place of sampling : Pars Terminals
Report Date : 23-03-2023 Date received : 22-03-2023
Date of issue : 23-03-2023 Date completed : 23-03-2023
Sample object : PARS Terminals March liftings Sample number : 14481219
Sample type : Composite
Sample submitted as : Gasoline A92
Marked : Multiple running shore tanks 01n, 03n, 04n and 05n composite

NAME	METHOD	UNIT	RESULT
Research Octane Number (RON)	ASTM D 2699	-	92.7
Motor Octane Number (MON)	ASTM D 2700	-	84.0
Lead (Pb)	ASTM D 3237	mg/L	< 2.5 (unleaded)
Density at 15 °C	ASTM D 4052	kg/m ³	741.5
Sulphur (S)	ASTM D 5453	mg/kg	7.2
Manganese (Mn)	ASTM D 3831	mg/L	< 0.25
Oxidation Stability	ASTM D 525	min	> 360
Gum Content (solvent-washed)	ASTM D 381	mg/100 mL	1.0
Copper Strip Corrosion (3 hrs / 50 °C)	ASTM D 130	-	1A
Appearance	Visual	-	Clear and Bright
Detailed Hydrocarbon Analysis	ASTM D 6729		
Olefins		vol %	8.284
Aromatics		vol %	28.857
Benzene		vol %	0.970
Oxygenates	ASTM D 4815		
Methanol		vol %	< 0.2
Ethanol		vol %	< 0.2
Isopropanol		vol %	< 0.2
tert-Butanol		vol %	< 0.2
Isobutanol		vol %	< 0.2
Esters Content (C5 and Higher)		vol %	2.30
Others Oxygenates		vol %	< 0.2
Oxygen content (calculated)		mass %	0.37
DVPE ²	ASTM D 5191	kPa/ psi	58.2/ 8.44
RVP ¹	ASTM D 323 calc.	kPa/ psi	57.5/ 8.34
Distillation (Automated)	ASTM D 86		
Initial boiling point		°C	30.8
Final boiling point		°C	201.7
Evaporated at 70 °C		vol %	26.8
Evaporated at 100 °C		vol %	50.1
Evaporated at 150 °C		vol %	83.9

All results in this report refer to the sample(s) tested as taken or submitted like specified in this Analysis report. Uncertainties, available on request, apply in the evaluation of the test results. All tests are conducted according to the latest version of the methods, unless another version is specifically indicated. Where available and for convenience purposes, the tested sample has been checked for compliance with supplied specifications, without accepting any liability for the supplied information. In case of dispute or concern, we refer to the interpretation of test results as defined in ASTM D3244, IP 367, ISO 4259 or GOST 33701. This report shall not be partially copied and reproduced without the written permission of the laboratory.

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NAME	METHOD	UNIT	RESULT
Evaporated at 180 °C		vol %	94.7
Residue		vol %	1.2
Vapor Lock Index (VLI)	Calculated	-	767

Remarks:

- 1 Formula of CARB is officially developed allowing to correlate the result of ASTM D 5191 with REID according to ASTM D 323.
- 2 The DVPE result on the composite sample could be inaccurate as the sample tested is not in accordance with the ASTM D 4057 Standard regulations.

Lab comments:

- * As per information received.

Signed by: Tatiana Zhakova - Laboratory Manager

Issued by: Saybolt Latvia SIA

Place and date of issue: Riga - 23-03-2023



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