Saybolt
A CORE LABORATORIES COMPANY

To Whom It May Concern

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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/m³	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 Highter)		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

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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

SAYBOLT LATVIJA Laboratory