

Date: 23/Nov/2022

 DOGRU TASARIM TICARET LTD  
YENİ SOKAK. DIŞ KAPI NO.8 DEMİRHAN LEFKOŞA

## Analytical Report: ME22-00943.001

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 (or below) results. Users of analytical results, when establishing conformance with commercial or regulatory requirements should note the full provisions of ASTM D3244, IP 367 and ISO 4259 in that context, the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Sections 7.3.6, 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report below (or above) the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. This document is issued by the Company under its General Conditions of Service accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This report shall not be reproduced except in full, without the written approval of the laboratory. Testing reports are not valid without signatory. Experimental result may be appealed at publishing the moment within 3 months.

SGS Sürpervise Gözetme Etüd Kontrol Servisleri A.Ş. OGC Laboratories accredited by TÜRKAK under registration number AB-0106-T for TS EN ISO/IEC 17025:2017 as test laboratory. Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports. The results reported herein have been performed in accordance with the laboratory's term of accreditation except calibrations/tests given. Asterisk (\*) in this report which are not within the scope of accreditation for our laboratory. The results are given directly, without the measurement uncertainty and confidence level being taken into consideration in the conformity assessment by the laboratory. Measurement uncertainties are used to validate the method and our accreditation logo is an expression of that. We accept the results of reproducibility and precision in test methods that have international legal validity under legal conditions. Our measurement uncertainties do not include uncertainty arising from sampling.

CLIENT ORDER NUMBER :	SGS ORDER NO.:	20067424
CLIENT ID :	VESSEL :	MT"GENERAL SKOBELEV"
LOCATION :	PRODUCT DESCRIPTION :	Fuel Oil
SAMPLE SOURCE :	SOURCE ID :	1,2,3,4,5,6,7,8,9,10,11,12 P/S
SAMPLE TYPE :	SAMPLE BY :	SGS OGC Inspector
SAMPLED :	RECEIVED :	22/Nov/2022 13:00
ANALYSED :	COMPLETED :	23/Nov/2022 13:39
SAMPLE REF NO:	SEAL NO:	357641-357642-357643-357644-357645-357646-357647-357648-357649-357650-357651-357652

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Density at 15°C	ASTM D1298	0.9531 kg/L	--	0.9970
Kinematic Viscosity at 100 °C	ASTM D445	19.96 cSt	12.5	45
Flash Point by PMCC	ASTM D93 (Procedure B)	95.0 °C	65	--
Upper Pour Point	ASTM D97	9 °C	--	28
Total Sulfur Content	ASTM D4294	0.97 % (m/m)	--	1.00
Water Content	ASTM D95	0.30 % (V/V)	--	0.5
Carbon Residue - Micro Method	ASTM D4530	8.75 % (m/m)	--	15
Ash from Petroleum Products	ASTM D482	0.024 % (m/m)	--	0.1
Ash		3.6 % (m/m)	--	7.0
Asphaltene *	IP 143	0.03 % (m/m)	--	0.15
Sediment by Extraction	ASTM D473	0.04 % (m/m)	--	0.1
Total Sediments - Existent	IP 375		--	

PREPARED BY:

CHECKED AND APPROVED:

 Ceren Delikurt  
Reporting Specialist

 Kaan Gulburnu  
Team Leader

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Member of the SGS Group

Date: 23/Nov/2022

DOGRU TASARIM TICARET LTD

YENİ SOKAK. DIŞ KAPI NO.8 DEMİRHAN LEFKOŞA

## Analytical Report: ME22-00943.001

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CLIENT ORDER NUMBER :	DOĞRU TASARIM TİCARET LTD	SGS ORDER NO.:	20067424
CLIENT ID :	KIBTEK TEKNEÇİK/ KIBRIS	VESSEL :	MT"GENERAL SKOBELEV"
LOCATION :	Ships Tanks	PRODUCT DESCRIPTION :	Fuel Oil
SAMPLE SOURCE :	Composite (UML) Before Discharge	SOURCE ID :	1,2,3,4,5,6,7,8,9,10,11,12 P/S
SAMPLE TYPE :	21/Nov/2022 11:00	SAMPLE BY :	SGS OGC Inspector
SAMPLED :	22/Nov/2022 13:40 - 23/Nov/2022 13:39	RECEIVED :	22/Nov/2022 13:00
ANALYSED :	4649	COMPLETED :	23/Nov/2022 13:39
SAMPLE REF NO:		SEAL NO:	357641-357642-357643-357644-357645-3 57646-357647-357648-357649-357650-35 7651-357652

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Potential Total Sediment	IP 390 Procedure A	0.02 % (m/m)	--	0.1
Net Calorific Value *	ASTM D4868	41.01 MJ/kg	40.460	--
Compatibility of Residual Fuels by Spot Test *	ASTM D4740	1 Rating	--	1
Compatibility *				
(**)				
Cleanliness of Residual Fuels by Spot Test *	ASTM D4740	1 Rating	--	1
Cleanliness by Spot Test *				
Elements in Residual Fuel Oil by ICP *	IP 501			
Aluminium *		15 mg/kg	--	--
Silicon *		13 mg/kg	--	--
Calcium *		6 mg/kg	--	30
Sodium *		13 mg/kg	--	50
Phosphorus *		2 mg/kg	--	15
Vanadium *		39 mg/kg	--	185
Zinc *		<1 mg/kg	--	15
Aluminium + Silicon *		28 mg/kg	--	50

\*\* End of Analytical Results \*\*

REPORT COMMENT : \*\*Client did not send Gasoil sample for Compatability test. For our results we use Tüpras Gasoil-Turkish Refinery.

This document is only valid in its entirety and your attention is drawn to the Terms and Conditions on Page 1 of this report.

PREPARED BY:

CHECKED AND APPROVED:

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Reporting SpecialistKaan Gulburnu  
Team Leader

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