## Certificate No. 181202-263372-B/M-NA-2020 Original 1 of 3





## CERTIFICATE OF SAMPLING AND ANALYSIS

Vessel : "GLOVIS DIAMOND"

Vessel commenced loading: at 20.22 hrs on 01st of August, 2020 Vessel completed loading: at 21.24 hrs on 02nd of August, 2020

Commodity as declared : Russian Steam Coal in bulk

Quantity as per SGS Draft Survey: 79,760.00 MT Loading port Vanino, Russia

Discharge port as declared: One or Two South Korean Port(s)

B/L date : August 02nd, 2020

THIS IS TO REPORT that in accordance with instructions received from our Principal, SUEK AG, to perform sampling and analysis of the above mentioned shipment, we hereby report the following:

MECHANICAL SAMPLING - SGS, operated as per ASTM D2234 Condition I-B-1 / D7430 Part A. Samples collected throughout the entire loading of the vessel.

Mechanical Sampling System (MSS) was checked by SGS prior to loading and confirmed that the MSS was designed and operated in accordance with ASTM D2234 Condition I-B-1 / D7430 Part A. Performance Monitoring of the MSS, and collection of extraction ratios, confirmed that the MSS continues to perform as designed. Bias Test data was made available to SGS.

**ANALYSIS**: Reported results are based on a calculated weighted average of sub-lots analysis results using weights and qualities on the same moisture basis, and composite analysis results where applicable. Analysis performed in accordance with ASTM Standards at the SGS laboratory in Vanino Port, Russia:

Total Moisture	(As received basis)	10.4	PCT	ASTM D 3302/D3302M-15
Inherent Moisture	(Air dried basis)	3.5	PCT	ASTM D 3173-11
Ash	(Air dried basis)	10.5	PCT	ASTM D 3174-12
Ash	(Dry basis)	10.9	PCT	ASTM D 3174-12
Volatile Matter	(Air dried basis)	35.7	PCT	ASTM D 3175-11
Sulphur	(As received basis)	0.27	PCT	ASTM D 4239-14 <sup>62</sup>
Nitrogen	(Dry Ash Free basis)	1.78	PCT	ASTM D3179-02e1
Fixed Carbon	(Air dried basis)	50.3	PCT	By difference
Calorific Value	(Gross, As received basis) (G.C.V.)	6398	kcal/kg	ASTM D 5865-13
Calorific Value	(Gross, Air dried basis)	6891	kcal/kg	
Calorific Value	(Net, As received basis) (N.C.V.)	6108	kcal/kg	
Grindability (HGI)		55	units	ASTM D 409/D 409M-12
Ash Fusion Temperature IDT (Reducing Atmosphere)		1224	Degree C	ASTM D 1857/D 1857M-04(2010)
Hydrogen (HD)	(Dry basis)	5.00	PCT	ASTM D 5373-14 51
Carbon (C)	(Dry basis)	70.89	PCT	ASTM D5373-16
Ash Analysis:	065056565650565656565656565656565656565			ASTM D 3682-13
Fe <sub>2</sub> O <sub>3</sub> 3050 25 3550 3650 3650 3650 3650 3650 3650 365	SSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGS	5.55	PCT	
K <sub>2</sub> O	HERE IS NOT THE PROPERTY OF TH	2.73	PCT	
Na <sub>2</sub> O		0.75	PCT	
SiO <sub>2</sub>		57.55	PCT	
Size Distribution:	above 50 mm	0.8	PCT	ASTM D 4749-87(2012)
5505855 556585050765565868685050555 503585 056 50358505656565656 5505956585505765656565656565656565656565656565656	under 2 mm	29.0	PCT	

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This document is a witness of survey services rendering

Signed and dated at VANINO, RUSSIA August 05th, 2020 Muniferences

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service printed overleaf.

The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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Any other 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 Clients 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.

FOR AND ON BEHALF OF SGS VOSTOK LIMITED INDEPENDENT MARINE SURVEYOR AND LABORATORY

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