

INCOLAB SERVICES RUSSIA S.C.

COMMODITY SAMPLERS AND ANALYTICAL CHEMISTS

HEAD OFFICE AND LABORATORY:

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Certificate of Sampling and Analysis

TO WHOM IT MAY CONCERN

We have examined the sample(s) of and report the following to be the result:

Date

06 April 2022

Our ref.

2203630RUS Ye

Material

: COAL D GRADE (0-50 mm)

Ex

m/v "VOLARIS-55"

Lot

AVERAGE

Weight

5'351.352 mt

Port

Kavkaz, Russia

Sampling date

04-05 April 2022

We, the undersigned Incolab Services R.S.C., confirm to have attended the loading and sampling the material of coal loaded on board of the vessel "VOLARIS-55" on 04-05 April 2022 at the port of Kavkaz.

SAMPLING

Sampling was carried out in accordance with I.S.O. Standards 18283.

ANALYSIS

SIZING !

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TOTAL MOISTURE	:	9.5	ક	ISO 589
ASH IN DRY	:	10.3	8	ISO 1171
ASH AS RECEIVED	:	9.3	8	
VOLATILE MATTER DAF	:	44.6	8	ISO 562
VOLATILE MATTER IN DRY	:	40.0	8	
VOLATILE MATTER AS RECEIVED	:	36.2	8	
GROSS AND NET CALORIFIC VALUE				ISO 1928
GROSS CALORIFIC VALUE IN DRY	:	6857	kcal/kg	
GROSS CALORIFIC VALUE AS RECEIVED	:	6206	kcal/kg	
NET CALORIFIC VALUE IN DRY	:	6612	kcal/kg	
NET CALORIFIC VALUE AS RECEIVED	:	5932	kcal/kg	
SULPHUR IN DRY	:	0.88	8	ISO 19579
SULPHUR AS RECEIVED	:	0.80	8	
FIXED CARBON DAF	:	55.4	8	ISO 17246
FIXED CARBON IN DRY	:	49.7	8	
FIXED CARBON AS RECEIVED	•	45.0	8	
TEST:				
+ 50 mm	:	9.8	ક	

Sizing test was carried out using square mesh sieves in accordance with 1.8.0. 1953.

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For and on behalf of, Incolab Services R.S.C

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20.5

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