



## SAMPLING AND ANALYSIS REPORT

**Client** : BRADFIELD s.r.o. Czech Republic  
**Order No.** : 200474 (PO 106716-5)  
**Declared commodity** : COAL  
**Declared granulation** : 0-50 mm  
**Declared weight** : 2 778,50 mt (42 wagons)  
**Date and place of inspection** : 16,17,18.07.2018 r Terminal CL Małaszewicze/Poland  
**No reference SGS** : 45/2002188-1

"Inspection body accredited by the Polish Center for Accreditation, No. AK 013".

THIS IS TO REPORT that upon the request of Messrs SGS Czech Republic, s.r.o., (SGS Czech Republic was nominated by their Client BRADFIELD s.r.o. Czech Republic ) we performed Sampling and Analysis of a/m cargo, according to the relevant standards and internal procedures of the SGS including the internal procedure PQ10 "Process of contract execution, Customer orders"

Sampling and samples preparation was performed as per PN-ISO 18283:2008 standard "Coal and coke - Manual sampling" and instruction SGS IS-MIN-09 "Inspection of the quality of coal and coke". dd 31.07.2015

Samples for analysis were drawn during unloading from the below mentioned wagons on 2018-07-16,17,18

The primary samples of coal were collected manually successively during the unloading operation of wagons, in the area of Terminal CL Małaszewicze. The general sample was mixed, ground, reduced, and then divided into 3 laboratory samples.

**Samples Distribution:**

sample no 1/3 about 5 kg - intended for analysis in the laboratory SGS ( secured : seal no: 102720)

samples no 2/3 and 3/3 about 5 kg – storage of samples to client's disposal for 3 months since inspection. ( secured : seal no: 102721 and 102722 )

**Numbers of Railcars:**

60819711, 62282645, 61695805, 61769543, 61691036, 62303136, 61677183  
 61574505, 61534228, 61544151, 61131066, 62267539, 61486700, 61799375  
 61571428, 62285382, 61628475, 62380027, 61876462, 61874806, 62271853  
 62355458, 62285333, 61870242, 62150453, 62685235, 62169172, 62087176  
 61448072, 62354915, 61448379, 61656450, 60904802, 62313044, 61151650  
 61782850, 62268610, 61486767, 61478210, 61240479, 60897618, 61192720

**Results of Analysis**

Parameters		Result (r)	Result (db)	Result (daf)	Standard / Method
Total moisture	%	10,4	---	---	PN-ISO 589:06 met A1
Ash	%	15,7	17,5	---	PN-ISO 1171:02
Volatile matters	%	23,9	26,7	32,3	ISO 562:2010
Total sulphur	%	0,30	0,34	0,41	ISO 19579:2006
Gross calorific value	kJ/kg	24931	27825	33730	PN-ISO 1928:02
	kcal/kg	5955	6646	8056	
Net calorific value	kJ/kg	23934	26980	---	PN-ISO 1928:02
	kcal/kg	5717	6444	---	

**SGS Polska Sp. z o.o.**

ul. Jana Kazimierza 3  
 01-248 Warszawa,  
 Poland  
 t: +48 22 329 22 22  
 f: +48 22 329 22 20

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**SGS**

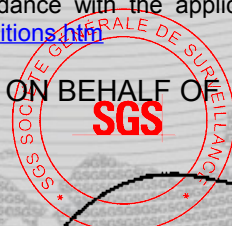
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Analyses were carried out at SGS Laboratory in Pszczyna. The laboratory is accredited and has the certificate of accreditation of Polish Centre for Accreditation No.: AB 313

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SIGNED AND STAMPED IN MAŁASZEWICZ  
23<sup>th</sup> of July 2018      SGS POLSKA Sp. z o.o.

FOR AND ON BEHALF OF



*[Handwritten signature]*

**SGS**

**SGS Polska Sp. z o.o.**  
ul. Jana Kazimierza 3  
01-248 Warszawa,  
Poland  
t: +48 22 329 22 22  
f: +48 22 329 22 20

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