

**Certificate N°: 2211040660**



**SGS**

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**CERTIFICATE OF SAMPLING AND ANALYSIS**

Our Principal : PGE Paliwa Sp. z o.o.  
Vessel : MV ASTAKOS  
Port of Discharge : Poland, Szczecin; Bytomskie quay  
Inspection commenced : 13<sup>th</sup> October 2022 at 08:00  
Inspection completed : 26<sup>th</sup> October 2022 at 22:45  
Quantity (SGS Draft survey) : 26,868,4 Metric Tons  
Description of goods : coal in bulk  
Our Reference : 51/20000721/1450-001C

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

This is to report that at the request of our Principal, we have performed inspection in accordance with the internal SGS procedures PQ-10 ed. 14 dd 26.07.2021, "The process of contract implementation, customer orders", IS-MIN-09 manual ed.11 dd. 10.09.2019, "Solid fuels quality inspection", IS-MIN-13 ed. 4 dd. 10.02.2019 manual "Screen test" in the scope of sampling, screen test analysis and we hereby report following:

**SAMPLING** Sampling during cargo reloading from the vessel mv M/V „ASTAKOS” at Szczecin Port. Cargo was divided into 3 lots.

cargo was discharged from 5 vessel's holds by 1-2 shore cranes equipped with grabs, relation: vessel – trucks -stock yard and vessel – wagons and vessel – stock place.

Samples were taken from stockpiles during discharge.

Manual sampling was performed by SGS, as per ISO 18283 5.2 during the discharge of the vessel. Increments were collected from a freshly exposed surface while the material was in motion, on a systematic, known-mass interval basis, with a fixed-increment mass.

The manual sampling method was agreed with the SGS Principal, as sampling by more reliable methods was not possible.

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

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Results of Analysis for fraction >25 mm:

	Unit	As Received Basis	As Determined Basis	Dry Basis	Dry Ash-Free Basis (daf)	Standard
Total Moisture	%	8,3	5,8	-----	-----	PN - ISO 589 :2006 met A1
Ash	%	13,6	14,0	14,9	-----	PN-ISO 1171:2002
Volatile Matter	%	35,1	36,1	38,3	45,0	ISO 562:2010
Total Sulphur	%	0,97	1,00	1,06	-----	ISO 19579:2006
Gross Calorific Value	kJ/kg	24649	25321	26880	-----	PN - ISO 1928:2020-05
Gross Calorific Value	kcal/kg	5887	6048	6420	-----	
Net Calorific Value	kJ/kg	23573	24278	25915	-----	
Net Calorific Value	kcal/kg	5630	5799	6190	-----	

Analyses performed by SGS laboratory in Pszczyna, Poland, a company authorised by PCA to provide such analyses under authorisation number AB 313. Findings are limited to the date, time and place of our inspection only. Partial reproduction of this certificate is not allowed without our written permission.

Issued by SGS Polska Sp z o.o.  
04<sup>th</sup> November 2022  
Approved by: Paulina Milewska

For and on behalf of  
SGS Polska Sp z o.o.

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

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