

ภาคผนวก ค

ผลการวิเคราะห์ถ่านหิน



REPORT OF ANALYSIS

OUR REFERENCE : MIN 2022-2027308-007
VESSEL NAME : MV.JIN SUI
QUANTITY : 55,450.000 t. (As per B/L)
55,451.340 t. (As per Draft Survey)
CONSIGNEE : SING HENG SENG COMPANY LIMITED
PORT OF DISCHARGE : KOH SICHANG, CHONBURI PROVINCE, THAILAND
DESCRIPTION OF GOODS : INDONESIAN STEAMING (NON COKING) COAL IN BULK
COMMENCED DISCHARGING : April 3, 2022
COMPLETED DISCHARGING : April 7, 2022

THIS IS TO REPORT that in accordance with instructions received from our PRINCIPAL, SING HENG SENG COMPANY LIMITED, to perform sampling and analysis of the above mentioned shipment, we hereby report the following:-

METHODS: Reported results are based on a calculated weighted average of 10 Sub-lot(s) analysis results using weights and qualities on the same moisture basis, and composite analysis results where applicable. Analysis performed in accordance with ASTM Standards or other International Standards stipulated on the Methods Page

MANUAL SAMPLING - SGS, performed as per ASTM D2234 Condition II-D-1. Sampling occurred from freshly exposed surface while the material was in motion, on a systematic known-mass intervals basis, with fixed-increment mass.

Manual Sampling method was agreed to with the SGS Principal, as sampling by more reliable methods that provide probability samples was not possible or was not selected by the SGS Principal. The suitability of this sampling method is defined by the sampling standard.

SAMPLING METHOD:

SAMPLING by ASTM D2234 collected sample between discharging from the vessel to lighter sampling from vessel grab every 63 mt and separate to 10 sub-lot (1 hold 2 subplot and 1 subplot representative 5,000 mt and 1 increment is 3 kgs/ Samples kept in plastic bag protect the moisture loss.

The gross representative Sub-lot sample was sized at 0-5 mm, 5-10 mm, 10 -25 mm, 25-50 mm, +50mm Each Sub-lot size fraction, was recombined to form a composite sub-sample representing each size fraction. Each size fraction sub-sample was analyzed

No rain between discharging the cargo (see in inspection report).

Sample No.	Ref. Size	Total Moisture (%)	Standard/Method
22-2027308 /1-5	0 - 50 mm	33.49	ASTM: D3302-17



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5.1 Analysis Results (As determined basis)

Sample No.	Analysis Moisture (%)	Ash Content (%)	Volatile Matter (%)	Fixed Carbon (%)	Gross Calorific Value (kcal/kg)	Sulfur (%)
Standard	ASTM: D7582-15			By calculation	ASTM: D5865-19	ASTM: D5016-16
22-2027308 /1-5	11.38	4.80	41.41	42.42	5,712	0.21

5.2 Analysis Results (As received basis)

Sample No.	Total Moisture (%)	Ash Content (%)	Volatile Matter (%)	Fixed Carbon (%)	Gross Calorific Value (kcal/kg)	Sulfur (%)
Standard	ASTM: D7582-15			By calculation	ASTM: D5865-19	ASTM: D5016-16
22-2027308 /1-5	33.49	3.59	31.09	31.83	4,288	0.16

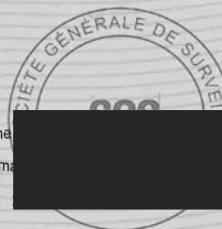
SGS (THAILAND) LIMITED

Signed and dated in
Bangkok
April 20, 2022

SJ/SS/ch

Inspector Name : Mr.Somchock P. & Mr.Phatcharapon C.
Coal samples were drawn by sub-contract under SGS witness sampling.
Our procedure ref. PR-TH-NR-MIN-IN-010 & PR-TH-NR-MIN-IN-001

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