

Certificate No : IDSMAJ17001135.1

Date: September 8, 2017

CERTIFICATE OF SAMPLING AND ANALYSIS

Name of Tug Boat / Barge : TB. MENTAYA 1 / BG. DIAMOND SEA HORSE
Quantity : 3,400 MT
Shipper : PT. BANGUN OLAH SARANA SUKSES
Port of Loading : JETTY BOSS, KUTAI BARAT, EAST KALIMANTAN, INDONESIA
Port of Discharge : MUARA BERAU ANCHORAGE, EAST KALIMANTAN, INDONESIA
Date of Loading : AUGUST 31 UP TO SEPTEMBER 5, 2017

THIS IS TO CERTIFY that we have performed the inspection, sampling and analysis of the coal consignment nominated above. Samples were taken during loading on barge and analyzed as per ASTM standard methods.

The following results were obtained:

<u>Parameter</u>		<u>Results</u>
Total Moisture	(As Received Basis)	: 13.51 PCT
Inherent Moisture	(Air Dried Basis)	: 8.72 PCT
Ash	(Air Dried Basis)	: 3.70 PCT
Volatile Matter	(Air Dried Basis)	: 43.21 PCT
Fixed Carbon	(Air Dried Basis)	: 44.37 PCT
Total Sulphur	(Air Dried Basis)	: 0.27 PCT
Gross Calorific Value	(Air Dried Basis)	: 6816 KCAL / KG
Gross Calorific Value	(As Received Basis)	: 6458 KCAL / KG
Grindability (HGI)		: 45
Size 0 - 50 mm		: 92.10 PCT

Issued By,
PT. IOL Indonesia at load port



Fajar Sidig
Technical Support Manager

Survey and sampling were carried out on our behalf by PT. Surveyor Indonesia

JKT 190617

HUBU 0232

This certificate is issued without prejudice. Our liability is limited to the exercise of due care and diligence. This certificate is not intended to relieve the buyers and sellers from their contractual obligations and only reflects our findings at the time, place and date of attendance only.

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