



AA 0183766 A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)
INDEPENDENT ASSURANCE SERVICES

Certificate No. : BJB 20391 QQ

CERTIFICATE OF ANALYSIS

Vessel : MV. JIN SHUN
 Shipper Name : PT. INTAN NUSANTARA INDONESIA
 Quantity : 49,187 MT
 Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
 Port of Discharge : ANY PORT IN MAINLAND CHINA
 Commodity : INDONESIAN STEAM COAL
 BL DATE : JANUARY 24, 2023

Specifications shown the following cumulative results :

SPECIFICATIONS:

TABLE A : BASED ON ASTM STANDARDS: PARAMETERS

PARAMETERS		ACTUAL ANALYSIS RESULTS	
TOTAL MOISTURE	(ARB)	: 42.99	% ASTM D3302/D3302M-19
INHERENT MOISTURE	(ADB)	: 12.41	% ASTM D3173/D3173M-17a
ASH CONTENT	(ADB)	: 8.97	% ASTM 3174-12(2018) ²¹
VOLATILE MATTER	(ADB)	: 42.47	% ASTM 3175-20
TOTAL SULPHUR	(ADB)	: 0.59	% ASTM D4239-18 ²¹
FIXED CARBON	(ADB)	: 36.15	BY DIFFERENCE BY DIFFERENCE
HGI		: 57	ASTM D409/D409M-16
GROSS CALORIFIC VALUE	(ARB)	: 3443	KCAL/KG ASTM D5865/D5865M-19
SIZE (0-50 MM)		: 90.44	% ASTM D4749-87(2019) ²¹

TABLE B : BASED ON GB STANDARDS:

TRACE ELEMENT ANALYSIS

TRACE ELEMENT ANALYSIS	BASIS	ACTUAL ANALYSIS RESULTS	
MERCURY (HG)	(DB)	: 0.043	UG/G GB/T 16659-2008
ARSENIC (AS)	(DB)	: 1.54	UG/G GB/T 3058-2008
PHOSPHORUS (P)	(DB)	: 0.004	PCT GB/T 216-2003
CHLORINE (CL)	(DB)	: 0.017	PCT GB/T 3558-2014 (Method B)
FLUORINE (F)	(DB)	: 42	UG/G GB/T 4633-2014

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,
INDONESIA


Welly Atikris
Head Of Operation Division

THIS IS TO CERTIFY, with limited condition, that PT. Surveyor Carbon Consulting Indonesia "SCCI" has performed the inspection only for the part of the whole cargo the consignment nominated above and the other part of cargo performed by other Surveyor appointed by Shipper. The cumulative result tested refer to ASTM Method were combined from the two parts of samples, on which gross sample were drawn by ASTM Method.

This certificate reflects our finding at time and place of inspection and does not refer to any other matter. This certificate is issued without prejudice and on the understanding that it does not relieve parties from their contractual obligations. All inspection covered in this certificate have been carried out to the best of our knowledge and ability and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care and due diligence.
013/Form-RQA/Adop Rev.0





AA 0183765 A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)
INDEPENDENT ASSURANCE SERVICES

Certificate No. : BJB 20391 QQ

ADDITIONAL CERTIFICATE OF SAMPLING AND ANALYSIS

Vessel : MV. JIN SHUN
 Shipper Name : PT. INTAN NUSANTARA INDONESIA
 Quantity : 49,187 MT
 Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
 Port of Discharge : ANY PORT IN MAINLAND CHINA
 Commodity : INDONESIAN STEAM COAL
 BL Date : JANUARY 24, 2023

Specifications shown the following cumulative results :

SPECIFICATION: BASED ON ASTM STANDARDS PARAMETERS	ACTUAL RESULTS	
GROSS CALORIFIC VALUE (ADB)	: 5290	KCAL/KG
GROSS CALORIFIC VALUE (ARB)	: 3443	KCAL/KG
GROSS CALORIFIC VALUE (MAF)	: 3858	KCAL/KG
GROSS CALORIFIC VALUE (MMMF)	: 3867	KCAL/KG
VOLATILE MATTER (ARB)	: 27.64	PCT
VOLATILE MATTER (DAF)	: 54.02	PCT
VOLATILE MATTER (DMMF)	: 53.35	PCT
VOLATILE MATTER (MMMF)	: 31.25	PCT
PHOTOPERMEABILITY (PM)	: 36	PM/%
ASH CONTENT (DB)	: 10.24	PCT
ASH CONTENT (ARB)	: 5.84	PCT
TOTAL SULPHUR (DB)	: 0.67	PCT
TOTAL SULPHUR (ARB)	: 0.38	PCT
HYDROGEN VALUE (ADB)	: 4.48	PCT
RADIOACTIVE DETECTION	: 49	NGY/H
GROSS CALORIFIC VALUE (DMMF)	: 6819	KCAL/KG
NET CALORIFIC VALUE (ARB)	: 3043	KCAL/KG
SIZE (0-1 MM)	: 9.29	PCT
SIZE (0-10 MM)	: 30.85	PCT
G INDEX	: 0	

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,
INDONESIA


Welly Atikno
Head Of Operation Division

THIS IS TO CERTIFY, with limited condition, that PT. Surveyor Carbon Consulting Indonesia "SCCI" has performed the inspection only for the part of the whole cargo the consignment nominated above and the other part of cargo performed by other Surveyor appointed by Shipper. The cumulative result tested refer to ASTM Method were combined from the two parts of samples, on which gross sample were drawn by ASTM Method.

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013/Form-RDA/Adop Rev.0





AA 0183764 A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)
INDEPENDENT ASSURANCE SERVICES

Certificate No. : BJB 20391 QQ

ADDITIONAL CERTIFICATE OF SAMPLING AND ANALYSIS

Vessel : MV. JIN SHUN
Shipper Name : PT. INTAN NUSANTARA INDONESIA
Quantity : 49,187 MT
Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
Port of Discharge : ANY PORT IN MAINLAND CHINA
Commodity : INDONESIAN STEAM COAL
BL DATE : JANUARY 24, 2023

Specifications shown the following cumulative results :

Test		Result	
Ultimate Analysis (ASTM D5373-21)			
Carbon	(DB)	PCT	: 63.51
Hydrogen	(DB)	PCT	: 5.11
Nitrogen	(DB)	PCT	: 0.89
Sulphur	(DB)	PCT	: 0.67
Oxygen	(DB)	PCT	: 19.58
Ash Analysis (ASTM D6349-21)			
SiO ₂	(DB)	PCT	: 53.93
Al ₂ O ₃	(DB)	PCT	: 19.39
Fe ₂ O ₃	(DB)	PCT	: 14.80
CaO	(DB)	PCT	: 3.94
MgO	(DB)	PCT	: 2.04
Na ₂ O	(DB)	PCT	: 0.20
K ₂ O	(DB)	PCT	: 0.89
MnO ₂	(DB)	PCT	: 0.18
TiO ₂	(DB)	PCT	: 1.03
P ₂ O ₅	(DB)	PCT	: 0.10
SO ₃	(DB)	PCT	: 2.97
Ash Fusion Temperature - Reducing (ASTM D1857/D1857M-18)			
Initial Deformation	Degree Celsius		: 1180
Spherical	Degree Celsius		: 1190
Hemisphere	Degree Celsius		: 1200
Flow	Degree Celsius		: 1210
Ash Fusion Temperature - Oxidizing (ASTM D1857/D1857M-18)			
Initial Deformation	Degree Celsius		: 1300
Spherical	Degree Celsius		: 1310
Hemisphere	Degree Celsius		: 1320
Flow	Degree Celsius		: 1330

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN

INDONESIA
Welly Atikna
Head Of Operation Division
JAKARTA
INDONESIA

THIS IS TO CERTIFY, with limited condition, that PT. Surveyor Carbon Consulting Indonesia "SCCI" has performed the inspection only for the part of the whole cargo the consignment nominated above and the other part of cargo performed by other Surveyor appointed by Shipper. The cumulative result tested refer to ASTM Method were combined from the two parts of samples, on which gross sample were drawn by ASTM Method.

This certificate reflects our finding at time and place of inspection and does not refer to any other matter. This certificate is issued without prejudice and on the understanding that it does not relieve parties from their contractual obligations. All inspection covered in this report have been carried out to the best of our knowledge and ability and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care and due diligence.





AA 0183763 A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)
INDEPENDENT ASSURANCE SERVICESTo Accompany Cert. No : **BJB 20391 QQ**

CERTIFICATE OF WEIGHT

THIS IS CERTIFY that the undersigned Surveyor of PT. Surveyor Carbon Consulting Indonesia did carry out a draft survey on board the following vessel according to SNI 7986:2014 and based on either measurements or scales and tables produced by the said vessel, the total cargo loaded on board this vessel was determined and reported as follows :

GENERAL PARTICULARS

Vessel	: MV. JIN SHUN
Shipper Name	: PT. INTAN NUSANTARA INDONESIA
Quantity	: 49,187 MT
Port of Loading	: TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
Port of Discharge	: ANY PORT IN MAINLAND CHINA
Commodity	: INDONESIAN STEAM COAL
BL DATE	: JANUARY 24, 2023

This draft survey was done with the Chief Officer of the said vessel in attendance. From the figures obtained by mean of the vessel's draft checked at the time initial and final draft surveys it was concluded that the total weight of cargo loaded on board the vessel, proved to be:

49,187 MT

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,
INDONESIA**Welly Atikno**

Head Of Operation Division

This certificate reflects our finding at time and place of inspection and does not refer to any other matter. This certificate is issued without prejudice and on the understanding that it does not relieve parties from their contractual obligations. All inspection covered in this certificate have been carried out to the best of our knowledge and ability and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care and due diligence.

013/Form-ROA/Adop Rev.0





AA 0183761 A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)
INDEPENDENT ASSURANCE SERVICESJob No. : BJB 20391 QQ**CERTIFICATE OF HOLD CLEANLINESS**

Vessel : MV. JIN SHUN
Shipper Name : PT. INTAN NUSANTARA INDONESIA
Quantity : 49,187 MT
Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
Port of Discharge : ANY PORT IN MAINLAND CHINA
Commodity : INDONESIAN STEAM COAL
BL DATE : JANUARY 24, 2023

THIS IS TO CERTIFY THAT the undersigned surveyor to PT. Surveyor Carbon Consulting Indonesia, did carry out survey of hold cleanliness attend on board :

MV. JIN SHUN

Port of registry : HONG KONG, call sign : VRV19, with 32,474 tons grt, and 53,352 tons dwt,
while she was lying afloat at : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
scheduled to load cargo of : INDONESIAN STEAM COAL

the cargo was to be loaded into the following ship's holds: # 1 up to # 5

Report :

It was noted that previous cargo was : NICKEL ORE

and method of cleaning were as follows :

- WASHING
- SWEEPING
- CLEANING

The above hold(s) in our opinion, as far as could be ascertained without the use of staging was found to be clean and in a fit condition to receive the cargo intended.

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,
INDONESIA



Welly Atikno
Head Of Operation Division

This certificate reflects our finding at time and place of inspection and does not refer to any other matter. This certificate is issued without prejudice and on that it does not relieve parties from their contractual obligations. All inspection covered in this certificate have been carried out to the best of our and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care

013P Form 01/04/2019 Rev 0





PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)
INDEPENDENT ASSURANCE SERVICES

AA 0183760 A

Certificate No. : **BJB 20391 QQ**

CERTIFICATE OF ORIGIN

Vessel : MV. JIN SHUN
Shipper Name : PT. INTAN NUSANTARA INDONESIA
Quantity : 49,187 MT
Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
Port of Discharge : ANY PORT IN MAINLAND CHINA
Commodity : INDONESIAN STEAM COAL
BL DATE : JANUARY 24, 2023

**WE HEREBY CERTIFY THAT THE COAL SHIPPED ON BOARD IS INDONESIA
IN ORIGIN.**

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,
INDONESIA



Welly Atikno

Head Of Operation Division

This certificate reflects our finding at time and place of inspection and does not refer to any other matter. This certificate is issued without prejudice and on the understanding that it does not relieve parties from their contractual obligations. All inspection covered in this certificate have been carried out to the best of our knowledge and ability and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care and due diligence.

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