



Certificate No. 06010/BOELAM
Date: September 25, 2019



issuing Office

P-12 Building, Tanjung Bara,
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DRAFT SURVEY REPORT

VESSEL : MV SHI DAI 10
CARGO DESCRIPTION : 75,187 MT OF INDONESIAN STEAM COAL IN BULK
BUYER : TNB FUEL SERVICES SDN. BHD.,
SHIPPER : PT KALTIM PRIMA COAL
BAKRIE TOWER, 15TH FLOOR,
RASUNA EPICENTRUM COMPLEX,
JL. H. R RASUNA SAID,
JAKARTA 12960 INDONESIA
LOADING PORT : TANJUNG BARA, INDONESIA
LOAD DATE : SEPTEMBER 25, 2019
DOCUMENTARY CREDIT NUMBER : TF1924716004

Findings:

Net Displacement light (Initial on September 23, 2019)	:	13,732	Metric Tonnes
Net Displacement loaded (Final on September 25, 2019)	:	88,919	Metric Tonnes
Total Cargo loaded	:	75,187	Metric Tonnes

The attachment available is an integral part of this certificate.

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CARGO QUANTITY CALCULATION TABLE

	INITIAL 23.09.19	FINAL 25.09.19
1. a. Draft forward, mean, m	4.850	14.625
b. Stern correction, m	-0.010	0.001
c. Draft forward corrected to F.P, m	4.840	14.626
2. a. Draft after, mean, m	7.410	14.335
b. Stern correction, m	0.095	-0.001
c. Draft after corrected to A.P, m	7.505	14.334
3. a. Draft midships, mean, m	6.080	14.560
b. Stern correction, m	-	-
c. Draft after corrected to M.P, m	6.080	14.560
4. Mean draught, m	6.1725	14.4800
5. Mean of means draft, m	6.12625	14.52000
6. Mean of means draft corrected for Hog / Sag, m	6.082125	14.519000
7. Displacement, MT	35,459	90,718
8. a. Correction for 1st trim	-517	-22
b. Correction for 2nd trim	54	0
c. Trim, m	2.665	-0.292
9. Displacement for trim corrected, MT	34,996	90,696
10. a. Density observed, Kg / L	1.0200	1.0200
b. Correction for density observed, MT	-171	-442
11. Displacement for density correction, MT	34,825	90,254
12. Total consumable stores and ballast, MT	21,093	1,335
13. Displacement corrected for consumable stores and ballast, MT	13,732	88,919
14. a. Corrected displacement, light, MT	-	-
b. Corrected displacement, Loaded, MT	13,732	88,919
15. Total calculated cargo loaded, MT	75,187	



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	<u>Initial Survey</u>		<u>Final Survey</u>	
<u>Actual draft</u>	Port	Starboard	Port	Starboard
Forward, m.	4.88	4.82	14.61	14.64
Aft, m.	7.41	7.41	14.35	14.32
Midships, m.	6.18	5.98	14.56	14.56

Deductibles

Ballast water, tonnes		19,949	202
Fresh water, tonnes		198	195
Fuel oil, tonnes		850	843
Diesel oil, tonnes		96	95
Lubricating oil, tonnes		<u>0</u>	<u>0</u>
Total		21,093	1,335

Lightship weight, tonnes	:	13,122
Declared Constant, tonnes	:	---
Actual Constant, tonnes	:	610

REMARKS:

1. Tank soundings available on request.
2. Original on board working sheet signed by Chief Officer available on request.
3. Sea state, Initial Survey : Moderate Sea and Swell about 0.50 M
Final Survey : Moderate Sea and Swell about 0.50 – 1.00 M



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CERTIFICATE OF HOLD CLEANLINESS

VESSEL	: MV SHI DAI 10
CARGO DESCRIPTION	: 75,187 MT OF INDONESIAN STEAM COAL IN BULK
BUYER	: TNB FUEL SERVICES SDN. BHD.,
SHIPPER	: PT KALTIM PRIMA COAL BAKRIE TOWER, 15TH FLOOR, RASUNA EPICENTRUM COMPLEX, JL. H. R RASUNA SAID, JAKARTA 12960 INDONESIA
LOADING PORT	: TANJUNG BARA, INDONESIA
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Finding:

Hold number 1, 2, 3, 4, 5, 6 and 7 of MV SHI DAI 10 were found suitable clean to receive a cargo of Indonesian steam coal in bulk.

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CERTIFICATE OF WEIGHT

VESSEL	: MV SHI DAI 10
CARGO DESCRIPTION	: 75,187 MT OF INDONESIAN STEAM COAL IN BULK
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SHIPPER	: PT KALTIM PRIMA COAL BAKRIE TOWER, 15TH FLOOR, RASUNA EPICENTRUM COMPLEX, JL. H. R RASUNA SAID, JAKARTA 12960 INDONESIA
LOADING PORT	: TANJUNG BARA, INDONESIA
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Result:

The consignment quantity loaded is 75,187 MT

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Certificate No. 06013/BOELAM
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CERTIFICATE OF REJECTION LIMIT ANALYSIS

THIS IS TO CERTIFY that we performed the sampling and analysis of the coal shipment nominated below :

VESSEL : MV SHI DAI 10
CARGO DESCRIPTION : 75,187 MT, OF INDONESIAN STEAM COAL IN BULK
BUYER : TNB FUEL SERVICES SDN. BHD.,
SHIPPER : PT KALTIM PRIMA COAL
BAKRIE TOWER, 15TH FLOOR,
RASUNA EPICENTRUM COMPLEX,
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Properties	Value as per certificate of sampling analysis
Gross Calorific Value (Gross) (as received basis)	5074 kcal/kg
Total Moisture (As Received Basis)	23.6 %
Ash Content (As Received Basis)	6.0 %
Sulfur Content (As Received Basis)	0.42 %
Volatille Matter (Air Dried Basis)	38.1 %
Fuel Ratio	1.09
Hardgrove Grindability Index	44
Ash Fusion Temperature (Reducing Atmosphere – IDT)	1140 °C
% of coal size more than 50 mm of total size distribution	3.0 %
% of coal size less than 2 mm fines of total size distribution	19.2 %

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CERTIFICATE OF ANALYSIS

VESSEL : MV SHI DAI 10
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PROPERTY (as received basis)

	UNITS	BASIS	Value
Calorific Value	kcal/kg	AR	5074
Total Moisture	%	AR	23.6
Ash	%	AR	6.0
Volatile Matter	%	AR	33.7
Total Sulphur	%	AR	0.42
Phosphorous	%	AR	0.010
Chlorine	%	AR	<0.01
Sodium in Ash	%	AR	1.12
Fuel Ratio			1.09

PROXIMATE ANALYSIS (air dried basis)

	UNITS	BASIS	Value
Calorific Value	kcal/kg	ADB	5732
Moisture on	%	ADB	13.7
Ash	%	ADB	6.8
Volatile Matter	%	ADB	38.1
Fixed Carbon	%	ADB	41.4
Total Sulphur	%	ADB	0.47

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ULTIMATE ANALYSIS (dry ash free)			Value
Carbon	%		74.55
Hydrogen	%		5.33
Nitrogen	%		1.48
Sulphur	%		0.59
Oxygen	%		18.05

ASH FUSION TEMPERATURE (Reducing Atmosphere)			
Initial Deformation	°C		1140
Hemispherical Deformation	°C		1220
Flow	°C		1280

ASH FUSION TEMPERATURE (Oxidizing Atmosphere)			
Initial Deformation	°C		1200
Hemispherical Deformation	°C		1300
Flow	°C		1370

PHYSICAL PROPERTIES			
Hardgrove Grindability Index			44
Abrasive Index	Mg metal/kg coal		15
Size Distribution			
0 x 50 mm	%		97.0
0 x 3 mm	%		21.9
0 x 2 mm	%		19.2
0 x 0.5 mm	%		4.3

ASH ANALYSIS (Dry basis)			
PROPERTY	UNITS	BASIS	
SiO ₂ ,	%	DB	52.17
Al ₂ O ₃ ,	%	DB	19.73
Fe ₂ O ₃ ,	%	DB	9.47
CaO,	%	DB	5.28
MgO,	%	DB	1.13
Na ₂ O,	%	DB	2.21
K ₂ O,	%	DB	1.70
TiO ₂ ,	%	DB	0.94
Mn ₃ O ₄ ,	%	DB	0.06
P ₂ O ₅ ,	%	DB	0.37
SO ₃ ,	%	DB	5.76
BaO,	%	DB	0.09
Undetermined,	%	DB	1.09



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