



Certificate No. 05864/BOELAM  
Date: September 19, 2019



**SUCOFINDO**

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## DRAFT SURVEY REPORT

VESSEL	: MV DL DAHLIA
CARGO DESCRIPTION	: 77,000 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 DATES	: SEPTEMBER 16 UP TO 19, 2019
DOCUMENTARY CREDIT NUMBER	: 644-LCU-502019

### Findings:

Net Displacement light (Initial on September 10, 2019)	:	14,928	Metric Tonnes
Net Displacement loaded (Final on September 19, 2019)	:	91,928	Metric Tonnes
Total Cargo loaded	:	77,000	Metric Tonnes

The attachment available is an integral part of this certificate.

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## CARGO QUANTITY CALCULATION TABLE

	INITIAL <u>10.09.19</u>	FINAL <u>19.09.19</u>
1. a. Draft forward, mean, m	4.715	14.160
b. Stern correction, m	-0.031	-0.002
c. Draft forward corrected to F.P, m	4.684	14.158
2. a. Draft after, mean, m	7.455	14.290
b. Stern correction, m	-0.009	0.018
c. Draft after corrected to A.P, m	7.446	14.308
3. a. Draft midships, mean, m	5.850	14.270
b. Stern correction, m	0.016	-0.001
c. Draft after corrected to M.P, m	5.866	14.269
4. Mean draught, m	6.0650	14.2330
5. Mean of means draft, m	5.96550	14.25100
6. Mean of means draft corrected for Hog / Sag, m	5.915750	14.260000
7. Displacement, MT	36,395	94,208
8. a. Correction for 1st trim	-468	24
b. Correction for 2nd trim	59	0
c. Trim, m	2.762	0.150
9. Displacement for trim corrected, MT	35,986	94,232
10. a. Density observed, Kg / L	1.0200	1.0200
b. Correction for density observed, MT	-176	-460
11. Displacement for density correction, MT	35,810	93,772
12. Total consumable stores and ballast, MT	20,882	1,844
13. Displacement corrected for consumable stores and ballast, MT	14,928	91,928
14. a. Corrected displacement, light, MT	14,928	-
b. Corrected displacement, Loaded, MT	-	91,928
15. Total calculated cargo loaded, MT	77,000	





Attachment  
To Certificate No. 05864/BOELAM  
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	<u>Initial Survey</u>		<u>Final Survey</u>	
<u>Actual draft</u>	Port	Starboard	Port	Starboard
Forward, m.	4.71	4.72	14.16	14.16
Aft, m.	7.45	7.46	14.34	14.24
Midships, m.	5.82	5.88	14.34	14.20

Deductibles

Ballast water, tonnes		20,012	1,063
Fresh water, tonnes		186	165
Fuel oil, tonnes		580	513
Diesel oil, tonnes		104	103
Lubricating oil, tonnes		<u>0</u>	<u>0</u>
Total		20,882	1,844

Lightship weight, tonnes	:	14,428
Declared Constant, tonnes	:	---
Actual Constant, tonnes	:	500

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 – 1.00 M  
Final Survey : Moderate Sea and Swell about 0.50 – 1.00 M



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## CERTIFICATE OF HOLD CLEANLINESS

VESSEL	: MV DL DAHLIA
CARGO DESCRIPTION	: 77,000 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 DATES	: SEPTEMBER 16 UP TO 19, 2019
DOCUMENTARY CREDIT NUMBER	: 644-LCU-502019

### Finding:

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

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Certificate No. 05866/BOELAM  
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## CERTIFICATE OF WEIGHT

VESSEL	: MV DL DAHLIA
CARGO DESCRIPTION	: 77,000 MT OF INDONESIAN STEAM COAL IN BULK
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LOADING PORT	: TANJUNG BARA, INDONESIA
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Result:

The consignment quantity loaded is 77,000 MT

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*[Signature]*  
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Certificate No. 05867/BOELAM

Date: September 23, 2019

Issuing Office:

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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 DL DAHLIA  
CARGO DESCRIPTION : 77,000 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 DATES : SEPTEMBER 16 UP TO 19, 2019  
DOCUMENTARY CREDIT NUMBER : 644-LCU-502019

Properties	Value as per certificate of sampling analysis	
Gross Calorific Value (Gross) (as received basis)	5128	Kcal/Kg
Total Moisture (As Received Basis)	23.5	%
Ash Content (As Received Basis)	5.8	%
Sulfur Content (As Received Basis)	0.55	%
Volatille Matter (Air Dried Basis)	37.6	%
Fuel Ratio	1.12	
Hardgrove Grindability Index	45	
Ash Fusion Temperature (Reducing Atmosphere – IDT)	1190	°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	19.0	%

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Certificate No. 05868/BOELAM  
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## CERTIFICATE OF ANALYSIS

VESSEL : MV DL DAHLIA  
CARGO DESCRIPTION : 77,000 MT OF INDONESIAN STEAM COAL IN BULK  
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### PROPERTY (As received basis)

	UNITS	BASIS	Value
Calorific Value	kcal/kg	AR	5128
Total Moisture	%	AR	23.5
Ash	%	AR	5.8
Volatile Matter	%	AR	33.4
Total Sulphur	%	AR	0.55
Phosphorous	%	AR	0.006
Chlorine	%	AR	< 0.01
Sodium in Ash	%	AR	0.96
Fuel Ratio			1.12

### PROXIMATE ANALYSIS (Air dried basis)

	UNITS	BASIS	
Calorific Value	kcal/kg	ADB	5772
Moisture on	%	ADB	13.9
Ash	%	ADB	6.5
Volatile Matter	%	ADB	37.6
Fixed Carbon	%	ADB	42.0
Total Sulphur	%	ADB	0.62

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ULTIMATE ANALYSIS (Dry ash free )		Value
Carbon	%	74.48
Hydrogen	%	5.33
Nitrogen	%	1.47
Sulphur	%	0.78
Oxygen	%	17.94

ASH FUSION TEMPERATURE (Reducing Atmosphere)		
Initial Deformation	°C	1190
Hemispherical Deformation	°C	1230
Flow	°C	1300

ASH FUSION TEMPERATURE (Oxidizing Atmosphere)		
Initial Deformation	°C	1240
Hemispherical Deformation	°C	1310
Flow	°C	1380

PHYSICAL PROPERTIES		
Hardgrove Grindability Index		45
Abrasive Index	Mg metal/kg coal	15
Size Distribution		
0 x 50 mm	%	97.0
0 x 3 mm	%	21.3
0 x 2 mm	%	19.0
0 x 0.5 mm	%	4.0

ASH ANALYSIS (Dry basis)		
PROPERTY	UNITS	BASIS
SiO <sub>2</sub> ,	%	DB
Al <sub>2</sub> O <sub>3</sub> ,	%	DB
Fe <sub>2</sub> O <sub>3</sub> ,	%	DB
CaO,	%	DB
MgO,	%	DB
Na <sub>2</sub> O,	%	DB
K <sub>2</sub> O,	%	DB
TiO <sub>2</sub> ,	%	DB
Mn <sub>3</sub> O <sub>4</sub> ,	%	DB
P <sub>2</sub> O <sub>5</sub> ,	%	DB
SO <sub>3</sub> ,	%	DB
BaO,	%	DB
Undetermined,	%	DB



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