

VESSEL SPECIFICATIONS

(All Details about and without guarantee)

VESSEL

Alam Selamat

EX-NAME
REGISTRY
OFFICIAL NO
CALLSIGN
IMMARSAT C GMDSS
INMARSAT TEL
INMARSAT FAX
INMARSAT TLX

N.A.
Malaysia
326145
9MBI4
453326710
N.A.
N.A.
453302810

OWNERS
MANAGERS
CLASS
CLASS ID NUMBER
CLASS NOTATION

Aturanseni Sdn Bhd
Pacific Ship Managers Sdn Bhd
Lloyd's Register
9000643
+100 A1 Bulk Carrier, Strengthened for heavy
cargoes, Holds no. 2 & 4 may be empty, CG,
UMS, +LMC

TONNAGE

REGISTERED
SUEZ
PANAMA
YEAR BUILT
KEEL LAID
LAUNCHED
BUILDER
HULL NUMBER

GROSS

21,941.00
22,669.97
22,589.24
1992
30-January-1992
14-April-1992
IHI Tokyo Shipyard
3024

NETT

12,531.00
19,682.97
18,035.01

VESSEL TYPE
ICE CLASSED
NUMBER OF DECK
SERVICE SPEED
ECONOMICAL SPEED
FORECASTLE
POOP DECK
NUMBER OF DECK HOUSES
BOW TRUSTER
NUMBER OF SCREWS
TYPE OF PROPELLER
SPARE PROPELLER
SPARE PROPELLER SHAFT

Dry Bulk Carrier
No
1
14 knots
13 knots
Raised
Flushed
1
No
1
Fixed Pitch, 4 Blades
No
No

L.O.A.
L.B.P.
BREADTH
DEPTH

180.80 M
171.00 M
30.50 M
15.30 M

DRAFT	10.931 M
DEADWEIGHT	39,110 MT
DISPLACEMENT	46,028 MT
TPC (SUMMER DRAFT)	47.20 M
F.W. ALLWNCE @ SUMMER DRAFT	244 M
CONSTANT	175 MT
LIGHTWEIGHT	6,918 MT

<u>DISPLACEMENT AND DRAFT DWT (MT)</u>		<u>DRAFT (M)</u>	<u>DISPLM'NT (MT)</u>
TROPICAL FRESHWATER	40,163	11.402	47,081
FRESHWATER	39,112	11.175	46,030
TROPICAL SEAWATER	40,183	11.158	47,101
SUMMER SEAWATER	39,110	10.931	46,028
WINTER SEAWATER	38,041	10.704	44,959

CARGO HOLDS

NUMBER OF HOLDS	5
NUMBER OF HATCHES	5

<u>HOLD S</u>	<u>FR.NO</u>	<u>HATCH SIZE(MxM)</u>	<u>GRAIN(M3)</u>	<u>BALE(M3)</u>
1	171 - 204	15.2 x 12.8	7,961.2	7,599.1
2	137 - 171	19.2 x 15.2	9,807.3	9,481.2
3	103 - 137	19.2 x 15.2	9,821.4	9,496.0
4	69 - 103	19.2 x 15.2	9,855.1	9,526.3
5	37 - 69	19.2 x 15.2	8,667.0	8,389.8
6	N.A.	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.	N.A.

TWEEN HOLDS (IF APPLICABLE)

<u>HOLD S</u>	<u>FR.NO</u>	<u>HATCH SIZE(MxM)</u>	<u>GRAIN(M3)</u>	<u>BALE(M3)</u>
1	N.A.	N.A.	N.A.	N.A.
2	N.A.	N.A.	N.A.	N.A.

CARGO HOLD TANKTOP DIMENSIONS EXCLUDE CORRUGATIONS AND SLOPES

<u>HOLD</u>	<u>FORWARD (M)</u>	<u>AFT (M)</u>	<u>LENGTH (M)</u>
1	4.60	22.40	25.60
2	22.40	22.40	25.60
3	22.40	22.40	25.60
4	22.40	22.40	25.60
5	22.40	9.60	25.60
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

FEATURES OF CARGO HOLDS

HOLDS VENTILATION	Natural
IF FORCED,NBR OF AIR CHANGE/MIN	N.A
BALLAST CARGO HOLD	No. 3
WHETHER OTHER HOLDS ARE TO BE BALLASTED TO REDUCE AIR DRAFT IN PORT	No
IF SO, STATE THE HOLD/S	N.A.
IF SO, STATE BALLAST QUANTITIES EACH HOLD	N.A.
UPPER WING TANKS IN ALL HOLDS	Yes
UPPER WING TANKS CONSTRUCTION	Slopping
LOWER HOPPER TANKS IN ALL HOLDS	Yes
UPPER STOOL IN WAY OF BULKHEADS	Yes
LOWER STOOL IN WAY OF BULKHEAD	Yes
BLEEDING UPPER WING TANKS	No
ORE STRENGTHENED	Yes
ALTERNATE HOLD LOADING	Yes
HOLDS USED FOR ALTERNATE LOADING	No. 1, 3, 5
ALTERNATE LOADING MAX CARGO	36,513(full bunker), 37,306(half bunker) MT
CARGO BATTENS FITTED	No
BATTENS PERMANENT TYPE	N.A.
IF NO, ANY PROVISIONS MADE FOR BATTENS	N.A.
IF SO, FITTINGS AND BATTENS ONBOARD?	No
IN WHICH HOLDS ?	N.A.
LOCATION OF BATTEN - SHIPSIDE P/S	N.A.
LOCATION OF BATTEN - BULKHEAD F/A	N.A.
LOCATION OF BATTEN - TANKTOP	N.A.
AUSTRALIAN HOLD LADDERS	Yes
CO2 FITTED IN HOLDS	Yes
SMOKE DETECTOR FITTED IN HOLDS	Yes

GRAIN LOADING APPROVAL

CERTIFIED GRAIN LOADING BOOKLET ONBOARD	Yes
GRAIN LOADING BOOK COMPLY WITH CHAPTER V1 SOLAS 74	Yes
IF OTHERWISE, STATE	N.A.
CERTIFIED BY CLASS FOR ADMINISTRATION OR OTHER NATIONAL AUTHORATIES	Yes
CERTIFIED FOR UNTRIMMED ENDS	Yes

OTHER FEATURES OF CARGO HOLDS

IS VESSEL LOG FITTED	No
COLLAPSIBLE STANCHIONS	No
SOCKET FOR STANDCHIONS FOR DECK CARGO	No
MAXIMUM HEIGHT OF LOG CARGO ON DECK	N.A. M
LOOSE LOG LASHING MATERIALS ON BOARD	No
IS VESSEL CONTAINER FITTED?	No
CONTAINER FITTINGS PERMANENT ?	No

- IN HOLDS	No
- ON DECKS	No
- ON HATCH COVERS	No
FULL CONTAINER SHOES, LASHINGS ETC	N.A.
MAXIMUM PERMISSIBLE STACK LOAD	N.A.
- HOLDS	N.A.
- DECK	N.A.
- HATCH COVERS	N.A.
ANY REEFER POINTS	No
POSITION OF REEFER POINTS	No
MAX REEFER TEU ALLOWED	No

CONTAINER CAPACITY

HOLD	IN HOLDS	TWEEN DK	H-COVERS	MAIN DK
1	N.A.	N.A.	N.A.	N.A.
2	N.A.	N.A.	N.A.	N.A.
3	N.A.	N.A.	N.A.	N.A.
4	N.A.	N.A.	N.A.	N.A.
5	N.A.	N.A.	N.A.	N.A.
6	N.A.	N.A.	N.A.	N.A.

DECK STRENGTHS (MT/M²)

HOLD	TANKTOP	UPPER DECK	H-COVERS
1	21.26	3.70	2.50
2	12.61	3.70	2.50
3	23.46	3.70	2.50
4	12.61	3.70	2.50
5	21.26	3.70	2.50
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

HATCH COVERS

MAIN DECK HATCH COVERS

MAKE:	Macgregor Far East
TYPE	Jack-knife fore-aft folding type
OPERATION SYSTEM	Hydraulic cylinders
SECURING SYSTEM	Quick acting cleats & screw cleats

TWEEN DECK HATCH COVERS

MAKE	N.A.
TYPE	N.A.

DISTANCES (in metres)

STERN TO FRONT OF SUPERSTRUCTURE	33.00 M
STERN TO AFT END AFTMOST HATCH	36.20 M
BOW TO FORWARD OF HATCH NO 1	20.60 M
FWD END OF HATCH NO 1 TO AFT END AFTMOST HATCH	124.0

SHIP'S RAIL TO OUTSIDE OF HATCH COAMING

HATCH	FORE (M)	MID (M)	AFT (M)
1	5.00	N.A.	8.20
2	7.65	N.A.	7.65
3	7.65	N.A.	7.65
4	7.65	N.A.	7.65
5	7.65	N.A.	6.10
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

THICKNESS OF HATCH COAMING

LONGITUDINAL	590 MM
TRANSVERSE	275 MM

CENTRE OF HATCH FROM BOW AND STERN

HATCH	BOW (M)	STERN (M)
1	28.2	45.8
2	53.4	73.0
3	80.6	100.2
4	107.8	127.4
5	135.0	152.6
6	N.A.	N.A.
7	N.A.	N.A.

HEIGHTS (in metres)

KEEL TO HIGHEST POINT	46.31 M
KEEL TO TOP OF FUNNEL	35.00 M
KEEL TO TOP OF CRANES	33.00 M
KEEL TO TOP OF FWD SAMSON POST	N.A.
KEEL TO TOP OF AFT SAMSON POST	N.A.
KEEL TO DK LEVEL AT SS RAIL, MIDSHIP	16.34 M
KEEL TO DK LEVEL AT H-COAMING, MIDSHIP	16.42 M

HEIGHT KEEL TO TOP OF HATCH COAMING AND HATCH COVERS

<u>HOLD</u>	<u>HATCH COAMING</u>	<u>HATCH CVRS</u>
1	17.70	18.70
2	16.40	17.60
3	16.40	17.60
4	16.40	17.60
5	16.40	17.60
6	N.A.	N.A.
7	N.A.	N.A.

HEIGHT FROM WATERLINE TO TOP OF HATCH COAMINGS

HOLD NO	LIGHT SHIP	FULLY BALLAST	LOADED
1	15.40 / 15.30	11.00 / 10.90	6.87

2	14.10 / 14.00	9.70 / 9.60	5.58
3	13.90 / 13.80	9.50 / 9.40	5.58
4	13.60 / 13.50	9.30 / 9.20	5.58
5	13.40 / 13.30	9.10 / 9.00	5.58
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

CARGO GEAR

NO OF CRANE: 4
MANUFACTURER: IHI
TYPE: Electro-hydraulic

CRANE NO	S.W.L. (LT)	LOCATION
1	25	Between hatch no. 1 & 2
2	25	Between hatch no. 2 & 3
3	25	Between hatch no. 3 & 4
4	25	Between hatch no. 4 & 5
5	N.A.	N.A.
6	N.A.	N.A.

MAXIMUM CRANE OUTREACH FROM SHIPSIDE WITH FULL LOAD/ANGLE FROM HORIZONTAL WHEN CRANE FULLY EXTENDED IN WORKING POSITION

CRANE	DISTANCE (M)	ANGLE
1	6.75	25 DEG
2	6.75	25 DEG
3	6.75	25 DEG
4	6.75	25 DEG
N.A.	N.A.	DEG
N.A.	N.A.	DEG

SPEEDS OF CRANES

HOISTING SPEED 25 / 15 / 5 MT x 12 / 18 / 36 M/MIN
SLEWING 0.75 RPM
LUFFING 36 SECS

CAN 2 CRANES USE AN EQUALISING BEAM No
ELECTRIC CONNECTIONS FOR HYDRAULIC GRABS No

IS UNION PURCHASE POSSIBLE? No
CAPACITY. OF UNION PURCHASE N.A.
CAN 2 CRANES WORK IN TANDEM? No

BALLAST INFORMATION

TOTAL BALLAST CAPACITY
INCLUDING BALLAST HOLD NO 3 22,702.80 M³

DRAFT FULLY BALLASTED FORE (M) AFT(M) MEAN

GTR 90% IFO/DO CAPACITY	7.57	8.45	8.01
GTR 20%IFO/DO CAPACITY	7.29	8.00	7.65
MAXIMUM DE-BALLASTING CAPACITY	550 M ³ /H		
BALLAST PUMP CAPACITY	550 M ³ /H		

BUNKER INFORMATION

100% IFO CAPACITY	1,595.40 MT
100% MDO CAPACITY	248.80 MT

FUEL OIL TANK	FRAME POS	IFO 100% (M ³)
NO 1 DB CENTRE	137 - 171	471.9
NO 2 DB CENTRE	103 - 171	471.9
NO 3 DB CENTRE	36 - 103	623.5
NO DB CENTRE	N.A.	N.A.
NO DB CENTRE	N.A.	N.A.
DEEP FO TANK (P)	N.A.	N.A.
DEEP FO TANK (S)	N.A.	N.A.
HFO SETT TANK	11 - 14	16.8
HFO SERV TANK	11 - 14	11.3
HFO OVERFLOW TANK	33 - 37	8.7

DIESEL OIL TANK	FRAME POS	IFO 100% (M ³)
MDO (S) TANK	17 - 37	103.0
MDO (P) TANK	N.A.	N.A.
MDO SERV TANK	-	4.8
MDO SETT TANK	-	4.8

FRESH WATER INFORMATION

DAILY CONSUMPTION (EST)	10 MT
MAX TANK CAPACITY	320.60 MT
MAX DAILY WATER PRODUCTION	20 MT
CURRENT WATER PRODUCTION	20 MT

FRESHWATER GENERATOR

MAKER	Sasakura Engineering Co. Ltd
MODEL	AFGU-Km20
RATED CAPACITY	20 MT/DAY

SPEED AND CONSUMPTIONS

SPEED (KTS)	CONS (LOADED)	RPM	CONS (BALASTED)	RPM
10	8.3	64	7.2	64
10.5	9.5	68	8.4	68
11	11.0	70	9.8	70
11.5	12.3	75	11.0	72
12	13.8	78	12.0	75

12.5	15.5	81	13.2	78
13	18.0	83	15.0	82
13.5	23.0	87	18.0	86
14	25.0	90	20.0	89
14.5	N.A.	N.A.	N.A.	N.A.
15	N.A.	N.A.	N.A.	N.A.
15.5	N.A.	N.A.	N.A.	N.A.
16	N.A.	N.A.	N.A.	N.A.
16.5	N.A.	N.A.	N.A.	N.A.
17	N.A.	N.A.	N.A.	N.A.
17.5	N.A.	N.A.	N.A.	N.A.
18	N.A.	N.A.	N.A.	N.A.

CONSUMPTION AT SEA

DIESEL OIL CONSUMPTION 1.65 MT
 FUEL OIL CONSUMPTION 0 MT
 (BOILER + GENERATOR)

CONSUMPTION IN PORT

FUEL OIL 0.8 MT/DAY
 DIESEL OIL, IDLE 1.1 MT/DAY
 DIESEL OIL, WORKING 8 HRS 2.2 MT/DAY
 DIESEL OIL, WORKING 16 HRS 2.95 MT/DAY
 DIESEL OIL, WORKING 24 HRS 3.7 MT/DAY

TYPE OF FUEL OIL Actual RME 25, ISO 8217 1996(E), 180 CST
 TYPE OF DIESEL OIL Estimate ISO-F DMB

MAIN ENGINE

MAKER Diesel United Ltd
 MODEL 6 Cylinders DU-Sulzer RTA52
 BORE 520 MM
 STROKE 1,800 MM
 MCR 7,900 ps x 94 rpm
 NOR 6,715 ps x 89 rpm

GENERATORS

NUMBER OF GENERATORS 3
 MAKER Yanmar Diesel Co. Ltd
 MODEL S185I-ET, 660ps x 900 rpm

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