

VESSEL SPECIFICATIONS
(All Details about and without guarantee)

VESSEL

Alam Aman II

EX-NAME	N.A.
REGISTRY	Malaysia
OFFICIAL NO	328489
CALLSIGN	9MEP3
IMMARSAT C GMDSS	453361110
INMARSAT TEL	353368310
INMARSAT FAX	353368311
INMARSAT TLX	353368313
OWNERS	Katella Sendirian Sdn Bhd
MANAGERS	Pacific Ship Managers Sdn Bhd
CLASS	Nippon Kaiji Kyokai
CLASS ID NUMBER	011712
CLASS NOTATION	Nk*, NS*, Bulk Carrier, Strengthened for Heavy cargoes, Hold no. 2 & 4 may be empty, ESP, MNS*, MO*

TONNAGE

GROSS

NETT

REGISTERED	27,306.00	15,810.00
SUEZ	28,205.67	25,177.12
PANAMA	N.A.	N.A.
YEAR BUILT	2001	
KEEL LAID	15-January-2001	
LAUNCHED	14-April-2001	
BUILDER	Minami Nippon Shipbuilding Co. Ltd, Usuki Japan	
HULL NUMBER	671	
VESSEL TYPE	Dry Bulk Carrier	
ICE CLASSED	No	
NUMBER OF DECK	1	
SERVICE SPEED	14.5 knots	
ECONOMICAL SPEED	13 knots	
FORECASTLE	Raised	
POOP DECK	Flushed	
NUMBER OF DECK HOUSES	4	
BOW TRUSTER	No	
NUMBER OF SCREWS	1	
TYPE OF PROPELLER	Fixed Pitch, 4 Blades	
SPARE PROPELLER	No	
SPARE PROPELLER SHAFT	No	
L.O.A.	189.90 M	
L.B.P.	181.00 M	
BREADTH	31.00 M	

DEPTH	16.70 M
DRAFT	11.769 M
DEADWEIGHT	47,301 MT
DISPLACEMENT	55,220 MT
TPC (SUMMER DRAFT)	51.5 M
F.W. ALLWNCE @ SUMMER DRAFT	0.267 M
CONSTANT	237 MT
LIGHTWEIGHT	7,919 MT

<u>DISPLACEMENT AND DRAFTDWT (MT)</u>		<u>DRAFT (M)</u>	<u>DISPLM'NT (MT)</u>
TROPICAL FRESHWATER	48,538	12.281	56,457
FRESHWATER	47,301	12.036	55,220
TROPICAL SEAWATER	48,568	12.014	56,487
SUMMER SEAWATER	47,301	11.769	55,220
WINTER SEAWATER	46,038	11.524	55,957

CARGO HOLDS

NUMBER OF HOLDS	5
NUMBER OF HATCHES	5

HOLD S	FR.NO	HATCH SIZE(MxM)	GRAIN(M3)	BALE(M3)
1	180 - 216	17.40 x 17.25	10,488.3	10,194.0
2	144 - 180	20.85 x 17.25	12,740.3	12,273.7
3	108 - 144	20.85 x 17.25	12,802.2	12,274.3
4	72 - 108	20.85 x 17.25	12,907.9	12,444.0
5	37 - 72	20.85 x 17.25	11,831.2	11,599.3
6	N.A.	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.	N.A.

TWEEN HOLDS (IF APPLICABLE)

HOLD S	FR.NO	HATCH SIZE(MxM)	GRAIN(M3)	BALE(M3)
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

HOLD	FORWARD (M)	AFT (M)	LENGTH (M)
1	7.95	23.70	27.30
2	23.70	23.70	27.60
3	23.70	23.70	27.60
4	23.70	23.70	27.90
5	23.70	9.60	27.90
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	Sloping
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	45,758 MT
CARGO BATTENS FITTED	No
BATTENS PERMANENT TYPE	N.A.
IF NO, ANY PROVISIONSMADE 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	No
SMOKE DETECTOR FITTED IN HOLDS	No

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	23.955	3.802	2.446
2	16.922	3.802	2.446
3	23.955	3.802	2.446
4	16.922	3.802	2.446
5	23.955	3.802	2.446
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

HATCH COVERS

MAIN DECK HATCH COVERS

MAKE:	MacGgregor 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	32.10 M
STERN TO AFT END AFTMOST HATCH	35.40 M
BOW TO FORWARD OF HATCH NO 1	22.20 M
FWD END OF HATCH NO 1 TO AFT END AFTMOST HATCH	132.90

SHIP'S RAIL TO OUTSIDE OF HATCH COAMING

HATCH	FORE (M)	MID (M)	AFT (M)
1	4.50	N.A.	6.75
2	6.90	N.A.	6.90
3	6.90	N.A.	6.90
4	6.90	N.A.	6.90
5	6.90	N.A.	6.90
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

THICKNESS OF HATCH COAMING

LONGITUDINAL	640 MM
TRANSVERSE	325 MM

CENTRE OF HATCH FROM BOW AND STERN

HATCH	BOW (M)	STERN (M)
1	30.90	159.45
2	58.20	132.30
3	87.00	103.35
4	115.80	74.55
5	144.60	45.75
6	N.A.	N.A.
7	N.A.	N.A.

HEIGHTS (in metres)

KEEL TO HIGHEST POINT	48.30 M
KEEL TO TOP OF FUNNEL	35.40 M
KEEL TO TOP OF CRANES	36.90 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	16.80 M
KEEL TO DK LEVEL AT H-COAMING, MIDSHIP	17.40 M

HEIGHT KEEL TO TOP OF HATCH COAMING AND HATCH COVERS

<u>HOLD</u>	<u>HATCH COAMING</u>	<u>HATCH CVRS</u>
1	19.05	19.95
2	19.05	19.95
3	19.05	19.95
4	19.05	19.95
5	19.05	19.95
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	18.34 / 18.14	11.19 / 11.11	7.59 / 7.55

2	18.05 / 17.82	11.07 / 10.97	7.53 / 7.49
3	17.74 / 17.49	10.93 / 10.83	7.48 / 7.43
4	17.40 / 17.16	10.79 / 10.69	7.42 / 7.37
5	17.07 / 16.83	10.65 / 10.55	7.36 / 7.31
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

CARGO GEAR

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

CRANE NO	S.W.L. (LT)	LOCATION
1	30	Between hatch no. 1 & 2
2	30	Between hatch no. 2 & 3
3	30	Between hatch no. 3 & 4
4	30	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	10.5	25 DEG
2	10.5	25 DEG
3	10.5	25 DEG
4	10.5	25 DEG
5	N.A.	DEG
6	N.A.	DEG

SPEEDS OF CRANES

HOISTING SPEED: 30 / 12 / 5 MT x 18.5 / 37 / 63 M/MIN
 SLEWING: 0.6 RPM
 LUFFING: 49 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: 26,938.8 M³

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

GTR 96% IFO/DO CAPACITY	7.93	8.80	8.37
GTR 10%IFO/DO CAPACITY	7.90	7.90	7.00
MAXIMUM DE-BALLASTING CAPACITY	1,200 M ³ /H		
BALLAST PUMP CAPACITY	600 M ³ /H		

BUNKER INFORMATION

100% IFO CAPACITY	1,850.80 MT
100% MDO CAPACITY	191 MT

FUEL OIL TANK	FRAME POS	IFO 100% (M ³)
NO 4 DB CENTRE	72 - 108	818.6
NO 5 DB CENTRE	36 - 72	479.4
NO DB CENTRE	N.A.	
NO DB CENTRE	N.A.	N.A.
NO DB CENTRE	N.A.	N.A.
DEEP FO TANK (P)	25 - 37	274.4
DEEP FO TANK (S)	25 - 37	252.4
HFO SETT TANK	-	13.0
HFO SERV TANK	-	13.0
HFO OVERFLOW TANK	N.A.	N.A.

DIESEL OIL TANK	FRAME POS	IFO 100% (M ³)
MDO (S) TANK	21 - 29	89.0
MDO (P) TANK	21 - 29	89.0
MDO SERV TANK	-	13.0
MDO SETT TANK	N.A.	N.A.

FRESH WATER INFORMATION

DAILY CONSUMPTION (EST)	10 MT
MAX TANK CAPACITY	361 MT
MAX DAILY WATER PRODUCTION	20 MT
CURRENT WATER PRODUCTION	20 MT

FRESHWATER GENERATOR

MAKER	Sasakura Engineering Co Ltd
MODEL	KM-20
RATED CAPACITY	20 MT/DAY

SPEED AND CONSUMPTIONS

SPEED (KTS)	CONS (LOADED)	RPM	CONS (BALASTED)	RPM
10	N.A.	N.A.	N.A.	N.A.
10.5	N.A.	N.A.	N.A.	N.A.
11	N.A.	N.A.	N.A.	N.A.
11.5	N.A.	N.A.	N.A.	N.A.
12	N.A.	N.A.	N.A.	N.A.

12.5	N.A.	N.A.	N.A.	N.A.
13	21.0	95	18.0	92
13.5	23.0	98	20.0	95
14	25.0	102	22.0	98
14.5	27.4	105	24.0	102
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 1.4 MT
 FUEL OIL CONSUMPTION (BOILER + GENERATOR) 0.1 MT

CONSUMPTION IN PORT

FUEL OIL 0.6 MT/DAY
 DIESEL OIL, IDLE 1 MT/DAY
 DIESEL OIL, WORKING 8 HRS 2 MT/DAY
 DIESEL OIL, WORKING 16 HRS 2.4 MT/DAY
 DIESEL OIL, WORKING 24 HRS 2.8 MT/DAY

TYPE OF FUEL OIL Actual RMG 35, ISO 8217(E), 380 CST
 TYPE OF DIESEL OIL Estimate Dmb Specs

MAIN ENGINE

MAKER Mitsui Engineering & Shipbuilding Co. Ltd
 MODEL Man B & W 6S50MC
 BORE 500 MM
 STROKE 1,910 MM
 MCR 7,428 kw (10,100 bhp) x 110.0 rpm
 NOR 6,317 kw (8,590 bhp) x 105.1 rpm

GENERATORS

NUMBER OF GENERATORS 3
 MAKER Yanmar Diesel Engine Co. Ltd
 MODEL 6N18L-EV

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