VESSEL SPECIFICATIONS
(All Details about and without guarantee)

VESSEL	**Alam Mesra**
EX-NAME	N.A.
REGISTRY	Singapore
OFFICIAL NO	388827
CALLSIGN	S6QS6
IMMARSAT C GMDSS	456329540
INMARSAT TEL	356329550
INMARSAT FAX	356329560
INMARSAT TLX	356329580
OWNERS	Ambi Shipping Pte Ltd
MANAGERS	Pacific Ship Managers Sdn Bhd
CLASS	Nippon Kaiji Kyokai
CLASS ID NUMBER	002275
CLASS NOTATION	NK, NS*, Bulk Carrier, Strengthened for heavy cargoes, Holds no. 2 & 4 may be empty, EPS, MNS*(MO)

TONNAGE	**GROSS**	**NETT**
REGISTERED	27,011	16,011
SUEZ	27,746.56	24,719.31
PANAMA	22,454	-
YEAR BUILT	2000	
KEEL LAID	11-April-2000	
LAUNCHED	07-July-2000	
BUILDER	Mitsui Engineering & Shipbuilding Co. Ltd Tamano, Japan	
HULL NUMBER	1514	
VESSEL TYPE	Dry Bulk Carrier	
ICE CLASSED	No	
NUMBER OF DECK	1	
SERVICE SPEED	14 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	16.50 M
DRAFT	11.62 M
DEADWEIGHT	46,644 MT
DISPLACEMENT	54,446 MT
TPC (SUMMER DRAFT)	51.50 M
F.W. ALLWNCE @ SUMMER DRAFT	0.264 M
CONSTANT	228 MT
LIGHTWEIGHT	7,802 MT

DISPLACEMENT AND DRAFT	**DWT (MT)**	**DRAFT (M)**	**DISPLM'NT (MT)**
TROPICAL FRESHWATER	47,865	12.126	55,667
FRESHWATER	46,644	11.884	54,446
TROPICAL SEAWATER	47,892	11.862	55,694
SUMMER SEAWATER	46,644	11.620	54,446
WINTER SEAWATER	45,400	11.378	53,202

CARGOHOLDS

NUMBER OF HOLDS	5
NUMBER OF HATCHES	5

HOLDS	**FR.NO**	**HATCH SIZE(MxM)**	**GRAIN(M3)**	**BALE(M3)**
1	180 - 216	17.60 x 17.16	10,355.50	9,885.60
2	144 - 180	20.80 x 17.16	12,547.20	11,974.70
3	108 - 144	20.80 x 17.16	12,583.40	11,930.90
4	72 - 108	20.80 x 17.16	12,679.70	12,137.10
5	37 - 72	20.80 x 17.16	11,654.60	11,308.40
6	N.A.	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.	N.A.

TWEEN HOLDS (IF APPLICABLE)

HOLDS	**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	23.54	27.50
2	23.54	23.54	27.60
3	23.54	23.54	27.60
4	23.54	23.54	28.00
5	23.54	9.69	28.00
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	45,097 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	Yes
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/M^2)

HOLD	TANKTOP	UPPER DECK	H-COVERS
1	24	3.8	1.75
2	17	3.8	1.75
3	24	3.8	1.75
4	17	3.8	1.75
5	24	3.8	1.75
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

HATCH COVERS

MAIN DECK HATCH COVERS

MAKE:	Nakata Mac. Corp.
TYPE	Jack-knife fore-aft folding type
OPERATION SYSTEM	Hydraulic cylinders
SECURING SYSTEM	Quick acting cleats & screw cleats

TWEEN DECK HATCH COVERS	N.A.
MAKE	N.A.
TYPE	N.A.

DISTANCES (in metres)

STERN TO FRONT OF SUPERSTRUCTURE	32.24 M
STERN TO AFT END AFTMOST HATCH	35.00 M
BOW TO FORWARD OF HATCH NO 1	22.00 M
FWD END OF HATCH NO 1 TO AFT END AFTMOST HATCH	132.80

SHIP'S RAIL TO OUTSIDE OF HATCH COAMING

HATCH	FORE (M)	MID (M)	AFT (M)
1	1.54	N.A.	4.68
2	5.43	5.43	5.43
3	5.43	5.43	5.43
4	5.43	5.43	5.43
5	2.75	N.A.	4.36
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

THICKNESS OF HATCH COAMING

LONGITUDINAL	635 - 362 MM
TRANSVERSE	310 MM

CENTRE OF HATCH FROM BOW AND STERN

HATCH	BOW (M)	STERN (M)
1	30.80	159.00
2	58.00	131.80
3	86.80	103.00
4	115.60	74.20
5	144.40	45.40
6	N.A.	N.A.
7	N.A.	N.A.

HEIGHTS (in metres)

KEEL TO HIGHEST POINT	47.60 M
KEEL TO TOP OF FUNNEL	36.20 M
KEEL TO TOP OF CRANES	35.50 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	16.50 M
KEEL TO DK LEVEL AT H-COAMING, MIDSHIP	17.10 M

HEIGHT KEEL TO TOP OF HATCH COAMING AND HATCH COVERS

HOLD	HATCH COAMING	HATCH CVRS
1	18.70	19.62
2	18.70	19.62
3	18.70	19.62
4	18.70	19.62
5	18.70	19.62
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	17.82 / 17.54	10.79 / 10.74	7.08 / 7.08

2	17.42 / 17.09	10.72 / 10.66	7.08 / 7.08
3	16.97 / 16.67	10.64 / 10.59	7.08 / 7.08
4	16.55 / 16.22	10.57 / 10.51	7.08 / 7.08
5	16.10 / 15.77	10.49 / 10.43	7.08 / 7.08
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	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	26	20 DEG
2	26	20 DEG
3	26	20 DEG
4	26	20 DEG
5	N.A.	DEG
N.A.	N.A.	DEG

SPEEDS OF CRANES

HOISTING SPEED 30 / 18 / 6 MT x 18.5 / 24 / 50 M/MIN
SLEWING 0.55 RPM
LUFFING 52 SECS

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

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

BALLAST INFORMATION

TOTAL BALLAST CAPACITY INCLUDING BALLAST HOLD NO 3 26,600 M^3

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

GTR 90% IFO/DO CAPACITY	7.94	8.47	8.21
GTR 20%IFO/DO CAPACITY	8.16	7.73	7.95
MAXIMUM DE-BALLASTING CAPACITY	1,200 M^3/H		
BALLAST PUMP CAPACITY	600 M^3/H		

BUNKER INFORMATION

100% IFO CAPACITY	1,864.9 MT
100% MDO CAPACITY	194.8 MT

FUEL OIL TANK	FRAME POS	IFO 100% (M^3)
NO 4 DB CENTRE	72 - 108	819
NO 5 DB CENTRE	36 - 72	479.8
NO DB CENTRE	N.A.	N.A.
NO DB CENTRE	N.A.	N.A.
NO DB CENTRE	N.A.	N.A.
DEEP FO TANK (P)	25 - 37	273.1
DEEP FO TANK (S)	25 - 37	253..2
HFO SETT TANK	32 - 35	19.9
HFO SERV TANK	29 - 32	19.9
HFO OVERFLOW TANK	36 - 35	479.8

DIESEL OIL TANK	FRAME POS	IFO 100% (M^3)
MDO (S) TANK	21 - 29	87.4
MDO (P) TANK	21 - 29	87.4
MDO SERV TANK	32 - 35	20
MDO SETT TANK	N.A.	N.A.

FRESH WATER INFORMATION

DAILY CONSUMPTION (EST)	10 MT
MAX TANK CAPACITY	300 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	18.31	80	15.31	80
11.5	19.14	85	16.01	85
12	19.97	88	16.70	88

12.5	20.80	92	17.39	92
13	21.64	97	18.90	97
13.5	24.90	100	19.79	100
14	26.50	102	22.13	102
14.5	27.45	104	22.92	104
15	28.39	105	23.71	105
15.5	29.34	106	24.50	106
16	30.28	108	25.29	108
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	1.6 MT
FUEL OIL CONSUMTPION (BOILER + GENERATOR)	0.5 MT

CONSUMPTION IN PORT

FUEL OIL	0.5 MT/DAY
DIESEL OIL, IDLE	1.2 MT/DAY
DIESEL OIL, WORKING 8 HRS	2.2 MT/DAY
DIESEL OIL, WORKING 16 HRS	2.6 MT/DAY
DIESEL OIL, WORKING 24 HRS	3 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	7428 kw (10,100 bhp) x 111.0 rpm
NOR	6317 kw (8,590 bhp) x 105.1 rpm

GENERATORS

NUMBER OF GENERATORS	3
MAKER	Daihatsu Diesel Mfg Co. Ltd
MODEL	5DK-20

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