VESSEL SPECIFICATIONS
(All Details about and without guarantee)

VESSEL	**Alam Senang**
EX-NAME	Atlantic, Golden Alliance
REGISTRY	Malaysia
OFFICIAL NO	362966
CALLSIGN	9MBO3
IMMARSAT C GMDSS	453323010
INMARSAT TEL	N.A.
INMARSAT FAX	N.A.
INMARSAT TLX	N.A.
OWNERS	Alam Senang Sdn Bhd
MANAGERS	Pacific Ship Managers Sdn Bhd
CLASS	American Bureau of Shipping
CLASS ID NUMBER	8401291
CLASS NOTATION	+A1 E Bulk Carrier, Strengthened for ore or heavy cargoes, Hold no. 2 & 4 may be empty, +AMS, +ACCU

TONNAGE	**GROSS**	**NETT**
REGISTERED	17,056.00	10,329.00
SUEZ	17,836.69	14,331.25
PANAMA	18,177.54	14,597.54
YEAR BUILT	1984	
KEEL LAID	01-November-1983	
LAUNCHED	06-January-1984	
BUILDER	Hitachi Zosen Corp., Hiroshima Works	
HULL NUMBER	4774	
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	Raised	
NUMBER OF DECK HOUSES	4	
BOW TRUSTER	No	
NUMBER OF SCREWS	1	
TYPE OF PROPELLER	Fixed Pitch, 4 Blades	
SPARE PROPELLER	Yes	
SPARE PROPELLER SHAFT	Yes	
L.O.A.	178.22 M	
L.B.P.	167.20 M	
BREADTH	23.10 M	
DEPTH	14.75 M	

DRAFT	10.609 M
DEADWEIGHT	28,098 MT
DISPLACEMENT	34,482 MT
TPC (SUMMER DRAFT)	35.40 M
F.W. ALLWNCE @ SUMMER DRAFT	0.244 M
CONSTANT	232 MT
LIGHTWEIGHT	6,384 MT

DISPLACEMENT AND DRAFT	DWT (MT)	DRAFT (M)	DISPLM'NT (MT)
TROPICAL FRESHWATER	28,871	11.074	35,255
FRESHWATER	28,098	10.953	34,487
TROPICAL SEAWATER	28,883	10.830	35,267
SUMMER SEAWATER	28,098	10.609	34,482
WINTER SEAWATER	27,315	10.388	33,699

CARGOHOLDS

NUMBER OF HOLDS	5
NUMBER OF HATCHES	5

HOLDS	FR.NO	HATCH SIZE(MxM)	GRAIN(M3)	BALE(M3)
1	174 - 199	12.00 x 11.48	4,709.78	4,506.60
2	140 - 174	19.20 x 11.48	7,736.56	7,473.05
3	106 - 140	19.20 x 11.48	6,982.81	6,864.11
4	72 - 106	19.20 x 11.48	7,785.63	7,520.44
5	38 - 72	17.60 x 11.48	7,520.02	7,242.80
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	5.60	16.40	19.80
2	16.80	18.00	26.40
3	18.00	18.00	26.40
4	18.00	18.00	26.40
5	18.00	12.70	26.40
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	N.A.
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	Yes
ORE STRENGTHENED	Yes
ALTERNATE HOLD LOADING	Yes
HOLDS USED FOR ALTERNATE LOADING	No. 1, 3, 5
ALTERNATE LOADING MAX CARGO	25,830 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	3.43 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	22.00	3.12	1.75
2	22.00	3.12	1.75
3	22.00	3.12	1.75
4	22.00	3.12	1.75
5	22.00	3.12	1.75
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

HATCH COVERS

MAIN DECK HATCH COVERS

MAKE:	Tsuji Heavy Industries Co. Ltd
TYPE	Jack-knife fore-aft folding type
OPERATION SYSTEM	Hydraulic rams
SECURING SYSTEM	Quick acting cleats

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

DISTANCES (in metres)

STERN TO FRONT OF SUPERSTRUCTURE	37.30 M
STERN TO AFT END AFTMOST HATCH	42.90 M
BOW TO FORWARD OF HATCH NO 1	20.12 M
FWD END OF HATCH NO 1 TO AFT END AFTMOST HATCH	115.20

SHIP'S RAIL TO OUTSIDE OF HATCH COAMING

HATCH	FORE (M)	MID (M)	AFT (M)
1	N.A	4.0	N.A.
2	N.A.	5.0	N.A.
3	N.A.	5.0	N.A.
4	N.A.	5.0	N.A.
5	N.A.	5.0	N.A.
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

THICKNESS OF HATCH COAMING

LONGITUDINAL	440 MM
TRANSVERSE	285 MM

CENTRE OF HATCH FROM BOW AND STERN

HATCH	BOW (M)	STERN (M)
1	26.12	152.10
2	48.92	129.30
3	75.32	102.90
4	101.72	76.50
5	126.52	51.70
6	N.A.	N.A.
7	N.A.	N.A.

HEIGHTS (in metres)

KEEL TO HIGHEST POINT	39.68 M
KEEL TO TOP OF FUNNEL	34.93 M
KEEL TO TOP OF CRANES	31.80 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	14.782 M
KEEL TO DK LEVEL AT H-COAMING, MIDSHIP	14.982 M

HEIGHT KEEL TO TOP OF HATCH COAMING AND HATCH COVERS

HOLD	HATCH COAMING	HATCH CVRS
1	16.90	17.24
2	16.90	17.24
3	16.90	17.24
4	16.90	17.24
5	16.90	17.24
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	15.20	12.94	6.36

2	15.18	12.47	6.26
3	14.66	11.93	6.15
4	14.15	11.38	6.03
5	13.67	10.87	5.92
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

CARGO GEAR

NO OF CRANE: 4
MANUFACTURER: Tsuji Heavy Ind. Co. Ltd
TYPE Electro-hydraulic

CRANE NO	S.W.L. (LT)	LOCATION
1	25	Aft of hatch no.01
2	25	Aft of hatch no.02
3	25	Aft of hatch no.03
4	25	Aft of hatch no.04
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	10.60	25 DEG
2	10.50	25 DEG
3	10.50	25 DEG
4	10.50	25 DEG
N.A.	N.A.	DEG
N.A.	N.A.	DEG

SPEEDS OF CRANES

HOISTING SPEED 12 M/MIN
SLEWING 0.80 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 CARINES WORK IN TANDEM? No

BALLAST INFORMATION

TOTAL BALLAST CAPACITY INCLUDING BALLAST HOLD NO 3 7,977.50 M^3

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

GTR 90% IFO/DO CAPACITY	3.96	6.77	5.37
GTR 20%IFO/DO CAPACITY	3.80	6.04	4.92
MAXIMUM DE-BALLASTING CAPACITY	350 M^3/H		
BALLAST PUMP CAPACITY	450 M^3/H		

BUNKER INFORMATION

100% IFO CAPACITY	1,829.78 MT
100% MDO CAPACITY	152.0 MT

FUEL OIL TANK	FRAME POS	IFO 100% (M^3)
NO 2 DB CENTRE	140 - 174	499.52
NO 3 DB CENTRE	106 - 140	500.01
NO 4 DB CENTRE	72 - 106	499.60
NO 5 DB CENTRE	37 - 72	320.65
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	-	5.0
HFO SERV TANK	-	5.0
HFO OVERFLOW TANK	N.A.	N.A.

DIESEL OIL TANK	FRAME POS	IFO 100% (M^3)
MDO (S) TANK	16 - 37	86.25
MDO (P) TANK	27 - 37	55.75
MDO SERV TANK	-	5.0
MDO SETT TANK	-	5.0

FRESH WATER INFORMATION

DAILY CONSUMPTION (EST)	12 MT
MAX TANK CAPACITY	298.35 MT
MAX DAILY WATER PRODUCTION	15 MT
CURRENT WATER PRODUCTION	15 MT

FRESHWATER GENERATOR

MAKER	Sasakura Engineering Co. Ltd
MODEL	AFGU S-31
RATED CAPACITY	15 MT/DAY

SPEED AND CONSUMPTIONS

SPEED (KTS)	CONS (LOADED)	RPM	CONS (BALASTED)	RPM
10	N.A.	N.A.	N.A.	N.A.
10.5	9.4	77	8.3	77
11	11.1	82	9.6	82
11.5	12.8	85	11.0	85
12	14.5	91	12.4	91

12.5	16.7	98	14.0	98
13	18.8	102	15.6	102
13.5	21.2	104	17.5	104
14	24.0	106	19.4	106
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	2 MT
FUEL OIL CONSUMTPION (BOILER + GENERATOR)	0 MT

CONSUMPTION IN PORT

FUEL OIL	1 MT/DAY
DIESEL OIL, IDLE	1.5 MT/DAY
DIESEL OIL, WORKING 8 HRS	2 MT/DAY
DIESEL OIL, WORKING 16 HRS	2.4 MT/DAY
DIESEL OIL, WORKING 24 HRS	3 MT/DAY

TYPE OF FUEL OIL	Actual RME, ISO 8217(E), 180 CST
TYPE OF DIESEL OIL	Estimate Dmb Specs

MAIN ENGINE

MAKER	Hitachi Zosen Corp.
MODEL	6RTA58
BORE	580 MM
STROKE	1,700 MM
MCR	9,600 bhp x 116 rpm
NOR	8,640 bhp x 112 rpm

GENERATORS

NUMBER OF GENERATORS	3
MAKER	Daihatsu Diesel Mfg Co. Ltd
MODEL	6PSHT-26H

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