VESSEL SPECIFICATIONS
(All Details about and without guarantee)

VESSEL	**Ikan Altamira**
EX-NAME	Alam Sayang
REGISTRY	Singapore
OFFICIAL NO	389734
CALLSIGN	S6EO5
IMMARSAT C GMDSS	456450640
INMARSAT TEL	N.A.
INMARSAT FAX	N.A.
INMARSAT TLX	456450650
OWNERS	Altamira Shipping Pte Ltd
MANAGERS	Pacc Ship Managers Pte Ltd
CLASS	American Bureau of Shipping
CLASS ID NUMBER	8538696
CLASS NOTATION	+A1 E Bulk Carrier, Strengthened for heavy cargoes, Holds no.02 & 04 may be empty, +AMS, +ACCU

TONNAGE	**GROSS**	**NETT**
REGISTERED	24,395.00	13,814.00
SUEZ	25,243.86	21,617.62
PANAMA	26,283.99	20,613.00

YEAR BUILT	1985
KEEL LAID	02-August-1984
LAUNCHED	26-February-1985
BUILDER	Mitsui Engineering & Shipbuilding Co. Ltd, Chiba shipyard
HULL NUMBER	1305
VESSEL TYPE	Dry Bulk Carrier
ICE CLASSED	No
NUMBER OF DECK	1
SERVICE SPEED	13 knots
ECONOMICAL SPEED	11 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	No
SPARE PROPELLER SHAFT	No
L.O.A.	182.80 M
L.B.P.	174.00 M
BREADTH	30.50 M

DEPTH	15.75 M
DRAFT	11.215 M
DEADWEIGHT	42,489 MT
DISPLACEMENT	49,967 MT
TPC (SUMMER DRAFT)	48.80 M
F.W. ALLWNCE @ SUMMER DRAFT	0.225 M
CONSTANT	250 MT
LIGHTWEIGHT	7,478 MT

DISPLACEMENT AND DRAFT	**DWT (MT)**	**DRAFT (M)**	**DISPLM'NT (MT)**
TROPICAL FRESHWATER	43,505	11.705	50,983
FRESHWATER	42,488	11.470	49,966
TROPICAL SEAWATER	43,629	11.448	51,107
SUMMER SEAWATER	42,489	11.215	49,967
WINTER SEAWATER	41,353	10.982	48,831

CARGOHOLDS

NUMBER OF HOLDS	5
NUMBER OF HATCHES	5

HOLDS	**FR.NO**	**HATCH SIZE(MxM)**	**GRAIN(M3)**	**BALE(M3)**
1	174 - 207	16.77 x 15.60	8,775.7	8,543.2
2	140 - 174	19.20 x 15.60	10,684.2	10,497.6
3	106 - 140	19.20 x 15.60	10,688.4	10,462.1
4	72 - 106	19.20 x 15.60	10,708.9	10,522.4
5	39 - 72	19.40 x 15.60	10,168.7	10,000.3
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	6.40	21.50	25.40
2	21.70	22.02	26.30
3	22.02	22.02	26.30
4	22.02	22.02	26.40
5	22.02	14.20	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	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	39,977 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	Yes
COLLAPSIBLE STANCHIONS	No
SOCKET FOR STANDCHIONS FOR DECK CARGO	Yes
MAXIMUM HEIGHT OF LOG CARGO ON DECK	7.10 M
LOOSE LOG LASHING MATERIALS ON BOARD	No
IS VESSEL CONTAINER FITTED?	Yes

CONTAINER FITTINGS PERMANENT ?	Yes
- IN HOLDS	No
- ON DECKS	Yes
- ON HATCH COVERS	Yes
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.	12	N.A.
2	N.A.	N.A.	18	N.A.
3	N.A.	N.A.	18	N.A.
4	N.A.	N.A.	18	N.A.
5	N.A.	N.A.	12	N.A.
6	N.A.	N.A.	N.A.	N.A.

DECK STRENGTHS (MT/M^2)

HOLD	TANKTOP	UPPER DECK	H-COVERS
1	21.1	3.4	2.3
2	16.2	3.4	2.3
3	21.1	3.4	2.3
4	16.2	3.4	2.3
5	21.1	3.4	2.3
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

HATCH COVERS

MAIN DECK HATCH COVERS

MAKE:	Kvaerne - Tsuji Heavy Ind. Co. Ltd
TYPE	Jack-knife fore-aft folding type
OPERATION SYSTEM	Hydraulic cylinders
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	33.9 M
STERN TO AFT END AFTMOST HATCH	37.7 M
BOW TO FORWARD OF HATCH NO 1	20.3 M
FWD END OF HATCH NO 1 TO AFT END AFTMOST HATCH	125.1

SHIP'S RAIL TO OUTSIDE OF HATCH COAMING

HATCH	FORE (M)	MID (M)	AFT (M)
1	6.07	6.57	6.57
2	6.57	6.57	6.57
3	6.57	6.57	6.57
4	6.57	6.57	6.57
5	6.57	6.57	6.57
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

THICKNESS OF HATCH COAMING

LONGITUDINAL	600 MM
TRANSVERSE	325 MM

CENTRE OF HATCH FROM BOW AND STERN

HATCH	BOW (M)	STERN (M)
1	28.6	154.2
2	54.5	128.3
3	81.7	101.1
4	109.1	73.7
5	136.0	46.8
6	N.A.	N.A.
7	N.A.	N.A.

HEIGHTS (in metres)

KEEL TO HIGHEST POINT	45.6 M
KEEL TO TOP OF FUNNEL	37.8 M
KEEL TO TOP OF CRANES	33.4 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	16.8 M
KEEL TO DK LEVEL AT H-COAMING, MIDSHIP	17.7 M

HEIGHT KEEL TO TOP OF HATCH COAMING AND HATCH COVERS

HOLD	HATCH COAMING	HATCH CVRS
1	17.86	18.66
2	17.86	18.66
3	17.86	18.66
4	17.86	18.66
5	17.86	18.66
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	13.80	10.40	6.60

2	13.20	10.36	6.60
3	12.70	10.20	6.60
4	12.20	10.10	6.60
5	11.60	10.00	6.60
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

CARGO GEAR

NO OF CRANE:	4
MANUFACTURER:	IHI Co. Ltd
TYPE	Electro-hydraulic

CRANE NO	S.W.L. (LT)	LOCATION
1	25	Between hatch no. 1 & 2
2	25	Between 02 & 03
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	24	20 DEG
2	24	20 DEG
3	24	20 DEG
4		20 DEG
N.A.	N.A.	DEG
N.A.	N.A.	DEG

SPEEDS OF CRANES

HOISTING SPEED	12 M/MIN
SLEWING	0.65 RPM
LUFFING	46 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	24,412.30 M^3

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

GTR 90% IFO/DO CAPACITY	7.36	7.92	7.64
GTR 20%IFO/DO CAPACITY	7.41	7.41	7.41
MAXIMUM DE-BALLASTING CAPACITY	1,100 M^3/H		
BALLAST PUMP CAPACITY	550 M^3/H		

BUNKER INFORMATION

100% IFO CAPACITY	1881.80 MT
100% MDO CAPACITY	190.1 MT

FUEL OIL TANK	FRAME POS	IFO 100% (M^3)
NO 2 DB CENTRE	140 - 174	421.6
NO 3 DB CENTRE	106 - 140	421.7
NO 4 DB CENTRE	72 - 106	421.7
NO 5 DB CENTRE	38 - 72	322.6
NO DB CENTRE	N.A.	N.A.
DEEP FO TANK (P)	36 - 39	110.8
DEEP FO TANK (S)	36 - 39	154.3
HFO SETT TANK	32 - 36	15.3
HFO SERV TANK	32 - 36	13.8
HFO OVERFLOW TANK	N.A.	N.A.

DIESEL OIL TANK	FRAME POS	IFO 100% (M^3)
MDO (S) TANK	20 - 39	93.6
MDO (P) TANK	20 - 39	89.2
MDO SERV TANK	36 - 38	4.0
MDO SETT TANK	36 - 38	3.3

FRESH WATER INFORMATION

DAILY CONSUMPTION (EST)	10 MT
MAX TANK CAPACITY	421.8 MT
MAX DAILY WATER PRODUCTION	18 MT
CURRENT WATER PRODUCTION	13 MT

FRESHWATER GENERATOR

MAKER	Alfa Laval Nirex Engineering Ltd
MODEL	JWSP-36-C100
RATED CAPACITY	20 MT/DAY

SPEED AND CONSUMPTIONS

SPEED (KTS)	CONS (LOADED)	RPM	CONS (BALASTED)	RPM
10	19.04	91.6	18.70	90.0
10.5	19.55	92.1	19.10	90.7
11	20.06	92.5	19.50	91.3
11.5	20.78	93.5	19.75	91.9
12	21.50	94.5	20.00	92.5

12.5	22.15	94.7	20.85	93.4
13	22.80	95.0	21.70	94.2
13.5	23.53	95.8	22.35	94.9
14	24.25	96.5	23.00	95.5
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	1.5 MT
FUEL OIL CONSUMTPION (BOILER + GENERATOR)	0 MT

CONSUMPTION IN PORT

FUEL OIL	0.5 MT/DAY
DIESEL OIL, IDLE	1.2 MT/DAY
DIESEL OIL, WORKING 8 HRS	2 MT/DAY
DIESEL OIL, WORKING 16 HRS	2.5 MT/DAY
DIESEL OIL, WORKING 24 HRS	3 MT/DAY
TYPE OF FUEL OIL	Actual RME 25, ISO 8217, 180 CST
TYPE OF DIESEL OIL	Estimate Dmb Specs

MAIN ENGINE

MAKER	Mitsui Engineering & Shipbuilding Co. Ltd
MODEL	Man B & W 6L60MCE
BORE	600 MM
STROKE	1,944 MM
MCR	8,420 bhp x 102 rpm
NOR	7,160 bhp x 96.6 rpm

GENERATORS

NUMBER OF GENERATORS	3
MAKER	Daihatsu Diesel Mfg Co. Ltd
MODEL	6DL-20

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