

**VESSEL SPECIFICATIONS**  
**(All Details about and without guarantee)**

**VESSEL**

**Ikan Veracruz**

EX-NAME Alam Veracruz  
 REGISTRY Singapore  
 OFFICIAL NO 389275  
 CALLSIGN 9VID6  
 IMMARSAT C GMDSS N.A.  
 INMARSAT TEL N.A.  
 INMARSAT FAX N.A.  
 INMARSAT TLX 456305440

OWNERS Veracruz Shipping Pte Ltd  
 MANAGERS Pacc Ship Managers Pte Ltd  
 CLASS Lloyd's Register  
 CLASS ID NUMBER 7616640  
 CLASS NOTATION +A1, E, AMS

**TONNAGE**

**GROSS**

**NETT**

REGISTERED	22,155.00	11,943.00
SUEZ	19,387.72	13,931.70
PANAMA	19,387.72	13,931.70
YEAR BUILT	1976	
KEEL LAID	16-August-1976	
LAUNCHED	22-October-1976	
BUILDER	Ishikawajima Marina Heavy Ind. Co. Ltd	
HULL NUMBER	2573	

VESSEL TYPE Dry Bulk Carrier  
 ICE CLASSED No  
 NUMBER OF DECK 1  
 SERVICE SPEED 13.5 knots  
 ECONOMICAL SPEED 13.0 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. 187.73 M  
 L.B.P. 178.00 M  
 BREADTH 28.40 M  
 DEPTH 15.30 M  
 DRAFT 10.738 M  
 DEADWEIGHT 37,679 MT

DISPLACEMENT	45,204 MT
TPC (SUMMER DRAFT)	45.59 M
F.W. ALLWNCE @ SUMMER DRAFT	0.248 M
CONSTANT	400 MT
LIGHTWEIGHT	7,525 MT

<u>DISPLACEMENT AND DRAFT DWT (MT)</u>	<u>DRAFT (M)</u>	<u>DISPLM'NT (MT)</u>
TROPICAL FRESHWATER 38,671	11.208	46,195
FRESHWATER 37,679	10.985	45,203
TROPICAL SEAWATER 38,692	10.960	46,217
SUMMER SEAWATER 37,679	10.738	45,204
WINTER SEAWATER 36,668	10.515	44,193

### 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	175 - 209	17.60 x 12.60	7858.4	7,476.8
2	141 - 175	17.60 x 14.40	9421.3	8,952.5
3	107 - 135	17.60 x 14.40	9413.9	8,973.1
4	73 - 107	17.60 x 14.40	9446.3	8,975.1
5	37 - 73	17.60 x 14.40	9634.8	9,189.3
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	7.0	20.9	23.0
2	20.9	20.9	24.6
3	20.9	20.9	24.6
4	20.9	20.9	24.6
5	20.9	12.0	25.4
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	No
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	39,011 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	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/M<sup>2</sup>)**

HOLD	TANKTOP	UPPER DECK	H-COVERS
1	20.9	3.6	1.8
2	12.4	3.6	1.8
3	20.9	3.6	1.8
4	12.4	3.6	1.8
5	20.9	3.6	1.8
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	Lift-on & Lift-off / Rolling type
OPERATION SYSTEM	Hydraulic
SECURING SYSTEM	Single wire pull type by mooring winch with jack up system.

**TWEEN DECK HATCH COVERS**

MAKE	N.A.
TYPE	N.A.

**DISTANCES (in metres)**

STERN TO FRONT OF SUPERSTRUCTURE	29.6 M
STERN TO AFT END AFTMOST HATCH	36.0 M
BOW TO FORWARD OF HATCH NO 1	14.4 M
FWD END OF HATCH NO 1 TO AFT END AFTMOST HATCH	127.6

**SHIP'S RAIL TO OUTSIDE OF HATCH COAMING**

HATCH	FORE (M)	MID (M)	AFT (M)
1	4.0	6.3	6.9
2	6.9	6.9	6.9
3	6.9	6.9	6.9
4	6.9	6.9	6.9
5	6.9	6.9	6.9
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

**THICKNESS OF HATCH COAMING**

LONGITUDINAL	174 MM
TRANSVERSE	174 MM

**CENTRE OF HATCH FROM BOW AND STERN**

HATCH	BOW (M)	STERN (M)
1	25.0	153.0
2	52.2	125.7
3	79.6	98.4
4	106.8	71.2
5	127.2	44.7
6	N.A.	N.A.
7	N.A.	N.A.

**HEIGHTS (in metres)**

KEEL TO HIGHEST POINT	44.9 M
KEEL TO TOP OF FUNNEL	34.5 M
KEEL TO TOP OF CRANES	29.1 M
KEEL TO TOP OF FWD SAMSON POST	30.1
KEEL TO TOP OF AFT SAMSON POST	N.A.
KEEL TO DK LEVEL AT SS RAIL, MIDSHIP	16.5 M
KEEL TO DK LEVEL AT H-COAMING, MIDSHIP	16.1 M

**HEIGHT KEEL TO TOP OF HATCH COAMING AND HATCH COVERS**

<u>HOLD</u>	<u>HATCH COAMING</u>	<u>HATCH CVRS</u>
1	17.0	17.848
2	16.9	17.828
3	16.9	17.828
4	16.9	17.828
5	16.9	17.828
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	14.1	10.1	6.5
2	13.5	10.0	6.5
3	13.0	9.7	6.4

4	12.5	9.5	6.4
5	12.0	9.2	6.4
6	N.A.	N.A.	N.A.
7	N.A.	N.A.	N.A.

### **CARGO GEAR**

NO OF CRANE: 5  
 MANUFACTURER: IHI Co. Ltd  
 TYPE: Electro-hydraulic

CRANE NO	S.W.L. (LT)	LOCATION
1	10	Between hatch no. 1 & 2
2	15	Between hatch no. 2 & 3
3	10	Between hatch no. 3 & 4
4	15	Between hatch no. 4 & 5
5	10	Aft of hatch no. 5
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	7.7	25 DEG
2	7.7	25 DEG
3	7.7	25 DEG
4	7.7	25 DEG
5	7.7	25 DEG
N.A.	N.A.	DEG

### **SPEEDS OF CRANES**

HOISTING SPEED 10t - 24, 15t - 15 M/MIN  
 SLEWING 0.9 RPM  
 LUFFING 35 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? N.A.

### **BALLAST INFORMATION**

TOTAL BALLAST CAPACITY  
 INCLUDING BALLAST HOLD NO 3 20,215 M<sup>3</sup>

DRAFT FULLY BALLASTED	FORE (M)	AFT(M)	MEAN
GTR 90% IFO/DO CAPACITY	6.82	7.65	7.23
GTR 20%IFO/DO CAPACITY	6.62	7.19	6.90

MAXIMUM DE-BALLASTING CAPACITY	1,000 M <sup>3</sup> /H
BALLAST PUMP CAPACITY	500 M <sup>3</sup> /H

### **BUNKER INFORMATION**

100% IFO CAPACITY	3,141.6 MT
100% MDO CAPACITY	209.2 MT

FUEL OIL TANK	FRAME POS	IFO 100% (M <sup>3</sup> )
NO 2 DB CENTRE	140 - 174	1,529.8
NO 4 DB CENTRE	72 - 106	1,549.8
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)	N.A.	N.A.
DEEP FO TANK (S)	N.A.	N.A.
HFO SETT TANK	29.5 - 32.5	34.3
HFO SERV TANK	29.5 - 32.5	27.7
HFO OVERFLOW TANK	32 - 35	13.4

DIESEL OIL TANK	FRAME POS	IFO 100% (M <sup>3</sup> )
MDO (S) TANK	18 - 40	97.9
MDO (P) TANK	16 - 40	97.6
MDO SERV TANK	34 - 36	6.9
MDO SETT TANK	34 - 36	6.8

### **FRESH WATER INFORMATION**

DAILY CONSUMPTION (EST)	13 MT
MAX TANK CAPACITY	598 MT
MAX DAILY WATER PRODUCTION	30 MT
CURRENT WATER PRODUCTION	18 MT

### **FRESHWATER GENERATOR**

MAKER	Sasakura Engineering Co. Ltd
MODEL	AFGU - 6
RATED CAPACITY	30 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	23.9	103	23.1	103
11.5	25.1	107	24.2	107
12	26.1	112	25.2	112
12.5	27.2	117	26.3	117
13	28.3	121	27.3	121

13.5	29.4	126	28.4	126
14	30.5	131	29.5	131
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 1.6 MT  
 FUEL OIL CONSUMPTION (BOILER + GENERATOR) 0.8 MT

**CONSUMPTION IN PORT**

FUEL OIL 0.8 MT/DAY  
 DIESEL OIL, IDLE 1.6 MT/DAY  
 DIESEL OIL, WORKING 8 HRS 0.83 MT/DAY  
 DIESEL OIL, WORKING 16 HRS 1.25 MT/DAY  
 DIESEL OIL, WORKING 24 HRS 2.8 MT/DAY

TYPE OF FUEL OIL Actual RME 25 ISO 8217 180 CST  
 TYPE OF DIESEL OIL Estimate DMB ISO 8217

**MAIN ENGINE**

MAKER Ishikawajima - Harima Heavy Ind. Co. Ltd  
 MODEL Sulzer 6RND68M  
 BORE 680 MM  
 STROKE 1,250 MM  
 MCR 11400 ps x 150 rpm  
 NOR 10280 ps x 145 rpm

**GENERATORS**

NUMBER OF GENERATORS 3  
 MAKER Daihatsu Diesel Mfg. Co. Ltd  
 MODEL 6PSHTc-26D

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