

Awning or Shelter Deck, STEEL STEAMER.

or Pt. Awning Deck

No. 1324

State if Report is also sent on the Machinery of the Vessel Yes. FRI JUL 29 1921

Port of **NAGASAKI** Date of completion of Report **4th June, 1921** Received at London OfficeSurvey held at **Nagasaki** Date, First Survey **20th April, 1920** Last Survey **25th May, 1921**On the (State if Single, Twin, or Triple Screw) **Twin Screw Steamer "RAKUYO MARU"** Rig **Schooner**

TONNAGE under 6592.13

Tonnage Deck... 1951.85

Do. between Tonnage Dk. and 3rd, 4th, or Awning Dk. 8543.98

Total under Upper Dk. 8543.98

Do. of Poop --

Do. of R. Qr. Dk. --

Do. of Bridge House --

Do. of Forecastle 55.55

Do. of Houses on Deck 729.16

Do. of excess of Hatchways 11.74

Do. above Crown of Engine Room 78.14

Gross Tonnage 9418.57

Less Crew Space 542.49

Less above Crown of Engine Room 78.14

TONNAGE FOR FEES... 8797.94

Less Engine Room 3013.94

Less Navigation Spaces 134.08

Less Peak Tanks 49.77

Register Tonnage 5678.29

as cut on Beam...

CLASS ***100AI, Shelter Dk**

with Freeboard.

Breadth (greatest moulded) 60.0

Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck 40.5

Deduct height of 'tween deck when this does not exceed 8ft. 32.5

Transverse Number 92.50

Length on deck from fore part of stem to after part of sternpost 460.0

Longitudinal Number 42550.0

Depth "d" at middle of length. See Secs. 2 & 13. 13.92

Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel 11.36

" " " Upper Deck at side to top of keel 14.15

Destined Voyage **Hongkong to So. America**

Surveyed while Building, Afloat, or in Dry Dock While Building.

Master **J. Yawata.**

Year of Appointment

Built at **Nagasaki, Japan.**When built **1921** Launched **26th Feb. 1921.**By whom built **Nagasaki Works, Mitsubishi Zosen Kaisha, Ltd.,**Owners **Toyo Kisen Kabushiki Kaisha.,**Managers **S. Asano.,**Residence **Tokio, Japan.**Port belonging to **Yokohama, Japan.**

LENGTH on Deck as per Rule	FT.	INS.	BREADTH Moulded	FT.	INS.	DEPTH, ACTUAL	Top of Floors to top of Awn. or Shelter Dk Beams	FT.	INS.	No. of Decks with flat laid
460	0		60	0		40.5	Shelter Dk. Moulded depth, ft. 40 ins. 6 To Upper Deck Beams	37	11	3

Dimensions of Ship per Register,	Length	Breadth	Depth	Upper Deck	Moulded depth, ft. 32 ins. 6 To Upper Dk.	Round up of Uppermost Dk. Beam, Actual
	460.0	60.0	32.5			14 1/2

FRAMING.				PILLARS.			
Inches in Ship	Inches in Ship	Inches in Ship	Inches per Rule Or as Approved	Inches in Ship	Inches in Ship	Inches per Rule Or as Approved	Inches per Rule Or as Approved
FRAME, xxxxxx Bars, amidships				PILLARS, In 'tween Deck, size and spacing			
10	3 1/2	675	10 3 1/2 .68	Widely Spaced as per Construction Profile.			
Do. in peaks	7 1/8	3 1/2	7 1/8 3 1/2 .40	" Hold " "			
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	7 1/6 3 1/2 3 1/2 .44	" Quarter, 'tween Dks., " "			
" " at intermdt. Bkts.	7 1/8	3 1/2	45 8 3 1/2 .40	" " in Hold " "			
Spacing of Frames from centre to centre amidships	36		36	KEELSONS AND STRINGERS.			
" length to collision bulkhead	27		27	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
" of Frames from centre to centre in peaks	24		24	" Rider Plate			
REVERSED FRAME, Angles	5	3 1/2	1 5 3 1/2 .48	" Flat Keel Plate Angles			
Do. in way of Double bottoms at Solid Floors	3 1/2	3 1/2	7 1/6 3 1/2 3 1/2 .44	" Horizontal Plates on Floors			
" " at intermdt. Bkts.	7 1/8	3 1/2	425 7 3 1/2 .42	" Angles or Bulb Angles			
FRAMING, depth of girder	10"		10"	SIDE KEELSONS, Number			
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	.42		.42	" Angles or Bulb Angles			
" in way of Engine and Boiler spaces	.52		.52	" Plate above floors, for length			
" thickness at the ends of vessel	.38		.38	" Intercoastal Plate, for length			
" depth at 1/2 the half-bdth. as per Rule				" Attached to outside plating with Angle			
" height extended at the Bilges				BILGE KEELSON, Angles			
FLOORS, in Cell Double Bottoms	46	.42	46 .42	" Intercoastal Plate, for length			
" state if flanged (top xxxxxx)	flanged			" Attached to outside plating with Angle			
" spacing of Solid	72		72	SIDE STRINGERS, Number 3 panting			
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss	46	.56	46 .56	" Angle			
" Angles, Top	3 1/2	5 5/8	3 1/2 5 5/8 .60	" Intercoastal Plate, for W lng.			
" Bottom Dble.	5	5 5/8	5 5 5/8 .60	" Attached to outside plating with Angle			
" to Floor	5	5 5/8	5 5 5/8 .62	Awning or Shelter Deck Stringer Plates, breadth and thickness			
" Brackets at intermdt. frmg., wdth & thknss	48"	x46	48"x46	" Angle on ditto			
SIDE GIRDERS, number and thickness	Two	.42	Two .42	" Tie Plates, fore and aft, outside Hatchways			
" state if flanged (top xxxxxx)	yes			" Deck * Iron or Steel, for whole lng.			
" Angles	3 1/2	3 1/2	7 1/6 3 1/2 3 1/2 .42	" Wood Deck, Material & thickness			
MARGIN PLATE, depth (exclusive of flange) and thickness	42	.56	36 .56	Upper Deck Stringer Plate, breadth and thickness			
" Angles to outside plating	4	.50	4 4 .50	" Angles on ditto, No. Two			
" to floors	3 1/2	3 1/2	7 1/6 3 1/2 3 1/2 .44	" Tie Plates, outside Hatchways			
" Brackets at intermdt. frmg., wdth & thknss	60"	.46	60" .46	" Deck * Iron or Steel, for whole lng.			
" Height of Brackets above at bilge	46"		46"	" Wood Deck, Material & thickness			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	46	.54	46 .54	Second Deck Stringer Plates, br'dth & thkn's			
" thickness in Engine and Boiler space	E=.56 B=.58	E=.56 B=.58		" Angles on ditto, No. Two			
" Remainder in Holds	.48-.38	.48-.38		" Tie Plates, outside Hatchways			
BEAMS, xxxxxx Shltr Dk. xxxxxx	10	3 1/2	475 10 3 1/2 .44	" Deck * Material and thickness			
" Bulb Angle	36		36	Third, Fourth & Fifth Deck Stringer Plate, breadth and thickness			
BEAMS, Upper Deck xxxxxx Bulb Angle	10	3 1/2	475 10 3 1/2 .44	" Angles on ditto, No.			
" Spacing	36		36	" Tie Plates, outside Hatchways			
BEAMS, Second xxxxxx Deck xxxxxx Channel	12x3 1/2 x3 1/2	x.59	12x3 1/2 x3 1/2 x.58	" Deck, Material and thickness			
" xxxxxx on upper edge				Fore Deck Stringer Plate, breadth & thickness			
" Spacing	36		36	" Angles on ditto			
BEAMS, xxxxxx Deck, Angle, Bulb Angle, xxxxxx	6	3.375	6 3 .32	" Tie Plates			
" Angles on upper edge				" Deck, Material and thickness			
" Spacing	max. 4'-6"		4'-6"	Boat Deck Stringer Plate, br'dth & thickness			
BEAMS, xxxxxx Deck, Angle, Bulb Angle, xxxxxx	6	3.375	6 3 .32	" Angle on ditto			
" Angles on upper edge				" Tie Plates			
" Spacing	max. 4'-6"		4'-6"	" Deck, Material and thickness			
BEAMS, Forecastle Deck xxxxxx Bulb Angle, xxxxxx	9	3 1/2	525 9x3 1/2 x.50	Forecastle Deck Stringer Plate, br'dth & th'kns			
" Angles on upper edge				" Angle on ditto			
" Spacing	54" & 48"		54" & 48"	" Tie Plates			
				" Deck, Material and thickness			

WEB FRAMES.				FORGINGS or CASTINGS.			
Inches in Ship.				Inches in Ship.			
WEB-FRAMES, In Fore Body, No. and spacing				KEEL, Bar, depth and thickness			
Three F. No. 81 153 161				Flat Plate			
brdth. & thickness				STEM, moulding and thickness			
No. of Side Stringers				Forged Stl 11"x2 7/8" 11"x2 7/8"			
WEB-FRAMES, In E. & B. Space, No. and spacing				STERN-POST for Rudder do. do.			
one F. No. 58				Cast Stl 11"x 3 1/4" 11"x 3 1/4"			
brdth. & thickness				for Propeller			
WEB-FRAMES, In After Body, No. and spacing				C. S. Brackets fitted.			
Three F. No. 12, 16 & 34				RUDDER-A x D Table 22. Speed			
brdth. & thickness				under 14, Ax D=683.08 683.08			
No. of Side Stringers				Main-Piece, diameter at head			
Size of Face Angles to Web-Frames				12" 12"			
BRACKET PLATES to Stringers between				at heel			
Web Frames, depth and thickness				9" 9"			
BULKHEADS.				RUDDER, how constructed			
Number, Thickness, STIFFENERS.				Forged Stl--main piece & stock.			
Single or Double Frames.				Cast steel--arms, single plate type.			
W.T. BULKHEADS AFT PEAK				Thickness of Plates or Single Plate			
54-30				1.12" single.			
52-26				Can the Rudder be unshipped afloat? yes.			
52-26				Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.?			
52-26				Plates, Central Iron & Steel Co. U.S.A.			
52-26				Eastern Steel Co. U.S.A.			
52-26				Plating.			
52-26				RIVETING.			
52-26				Edges.			
52-26				Butts.			
52-26				If Lapped.			
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52-26				Rivets.			

GENERAL REMARKS—(continued).

All the necessary piping for the oil fuel installation has been fitted to No.2,3 & 4 ballast tanks, and the oil fuel tanks & settling tanks, and all these tanks have been tested & equipped in accordance with instructions contained in Section 49, of the Rules & Regulations, and in the Secretary's letter dated the 17th June 1920.

The vessel left this port burning coal and on arrival at Yokohama, oil burners and gauges to settling tanks are to be fitted, and the installation completed.

The Surveyors there have been advised.

Recommended that the record of "Fitted for oil fuel F.P. above 150 F" be deferred until the installation is completed.

The deep tanks are intended to occasionally carry bean oil as cargo and were tested by a head of water to the height of the Shelter Deck.

Fore Peak Tank and F. W. Tanks fitted with usual suction.

The amendments to sizes of W. T. Bulkhead Stiffeners and Main Frames in way of Engine Space are as approved by the Kobe Office on 18th Nov. 1920.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop / ft., R.Q.D. / ft., Bridge / ft., Forecastle 41.5 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as should appear in the Register Book) 2 Dks (Stl) & Shelter dk (Stl-Ws) Elec. light & wireless fitted.

Official No. ; Signal Letters Three tiers of beams. State if Machinery is fitted aft No-

How are the surfaces preserved from oxidation? Inside paint and cement. Outside paint.

PARTICULARS OF WATER BALLAST. Note :- oil 38 cub ft = 1 ton. State whether the Double bottom is constructed on the cellular system or with girders on floors cellular

Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	108	299.81 (FW)	Fore peak tank,	24	127.16 (FW)
Double bottom, under Engines and Boilers,			After peak tank,	18	47.30 "
Double bottom, if under Engines only,	33	179.72 (FW)	Deep tank, aft,	24	548.76 (SW)
Double bottom, if under Boilers only,	66	330.59 oil	Deep tank, forward, Fuel oil tank.	24	426.14 (oil)
Double bottom, forward,	110.25	347.72 (SW)	Other tanks, if fitted, (Settling tank)	24	155.74 (oil)
	72	361.65 oil			
	Total capacity of double bottom 1519.49		(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks.			F.W. Tanks in E. 91-0" 97.4 FW		
			Yes.		

Order for Special Survey No. 64.

Date 9th Jany. '20.

No. 3 4 2, in builder's yard.

DATES of Surveys held while building

1920. Apr. 20, May. 25, June. 14, 16, 21, 23, 29, July. 2, 6, 12, 22, 27, Aug. 4, 11, 18, 20, 27, Sept. 6, 16, 29, Oct. 11, 21, 27, Nov. 12, 17, 19, 22, 26, Dec. 1, 3, 6, 17, 18, 27, 1921. Jany. 8, 12, 13, 15, 18, 20, 21, 22, 25, 29, Feb. 1, 8, 9, 10, 15, 19, 26, Mar. 3, 7, 18, 23, 30, May. 7, 14, 25.

Total No. of Visits 63.

Surveyor's Signature

N. Crawford

Lloyd's Register Foundation