

Awning or Shelter Deck, STEEL STEAMER.

or Pt. Awning Deck.

No. 2414

Port of **KOBE, JAPAN.** Date of completion of Report **1st Feb 1919** Received at London Office **MUN. 17 MAR. 1919**
 Survey held at **KOBE** Date, First Survey **19 Sept 1918** Last Survey **8 January 1919**
 On the (State if Single, Twin, or Triple Screw) **SINGLE SCREW STEEL STEAMER TOFUKU MARU.** Rig **2 MASTS.**

CLASS **+100 A.I. AWNING DK.** FEET.
 Breadth (greatest moulded) **51.00**
 Depth, at middle of length from top of keel to top of beams at side of uppermost Continuous Deck **36.00**
 Deduct height of 'tween deck when this does not exceed 8ft. **28.00**
 Transverse Number **79.00**
 Length on deck from fore part of stem to after part of sternpost **385.00**
 Longitudinal Number **30415.**
 Depth "d" at middle of length. See Secs. 2 & 13. **16.00**
 Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel **10.7.**
 " " " Upper Deck at side to top of keel **13.7.**
 Destined Voyage

Master **T. WAKASAWA.**
 Year of Appointment
 Built at **Kobe**
 When built **1919.** Launched **Dec 15-1918.**
 By whom built **The Kawasaki Dockyard Co. Ltd. (YARD No. K429.)**
 Owners **do do.**
 Managers
 (Where necessary to be entered in Reg. Book.)
 Residence
 Port belonging to **KOBE. JAPAN.**

LENGTH on Deck as per Rule	Ft.	Ins.	BREADTH Moulded	Ft.	Ins.	DEPTH, ACTUAL Do.	Ft.	Ins.	Top of Floors to top of Awn. or Shelter Dk. Beams	Ft.	Ins.	No. of Decks with flat laid	No. of Tiers of Beams
385	0		51	0		36	0		33	7		3	3
Dimensions of Ship per Register, Length 385ft breadth 51ft depth 28ft Upper Deck. Moulded depth, ft. 36 ins. 0 To Awning or Shelter Dk. Round up of Uppermost Dk. Beam, Actual 127 ins.													

FRAMING.				Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.
NAME, AWNING Bars, amidships	9	3 1/2	52	9	3 1/2	52			
Do. in peaks FP 7x3 1/2 x 42 L	6	3 1/2	36	6	3 1/2	36			
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40			
" " at intermdt. Bkts.	8	3 1/2	40	7 1/2	3 1/2	40			
ing of Frames from centre to centre amidships	25 1/2			25 1/2					
" length to collision bulkhead	24			24					
of Frames from centre to centre in peaks	24			24					
VERSED FRAME, Angles	3 1/2	13	36	3 1/2	3	36			
o. in way of Double bottoms at Solid Floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40			
" " at intermdt. Bkts.	8	3 1/2	40	7	3	40			
AMING, depth of girder	6	in AP.		6	in AP.				
ORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships									
" in way of Engine and Boiler spaces									
" thickness at the ends of vessel									
" depth at 1/2 the half-bdth. as per Rule									
" height extended at the Bilges									
ORS, in Cell Double Bottoms	40	1	36	40	1	36			
" state if flanged (top and bottom)	No			No					
" spacing of Solid	24	in pks.		25 1/2	8	51			
TRE GIRDER, in Dbl. bottom, dpth & thcknss	42	150	40	42	50	40			
" Angles, Top	3 1/2	3 1/2	50	3 1/2	3 1/2	50			
" Bottom	5	5	58	5	5	58			
" to Floors	5	5	56	5	5	56			
Brackets at intermdt. frmg., wdth & thcknss	36	40	36	36	40	36			
E GIRDERS, number and thickness	Two	38	36	Two	38	36			
" state if flanged (top & bottom)	Top	3 1/2	flange	Top	3 1/2	flange			
Angles	3 1/2	3 1/2	40	3 1/2	3 1/2	40			
GIN PLATE, depth (exclusive of flange) and thickness	38	32	46	38	32	46			
Angles to outside plating	3 1/2	3 1/2	46	3 1/2	3 1/2	46			
" to floors	3 1/2	3 1/2	40	3 1/2	3 1/2	40			
Brackets at intermdt. frmg., wdth & thcknss	30	40	36	30	40	36			
Height of Brackets above at bilge	24			24					
R BOTTOM PLATING, breadth and thickness of Middle Line Strake	42	50	40	42	50	40			
" thickness in Engine and Boiler space	2.48	18	56	2.48	18	56			
" Remainder in Holds	40	34		40	34				
IS, Awng Shelter Dk, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	8	3 1/2	40	7	3	42			
Spacing	25 1/2			25 1/2					
IS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	10	3 1/2	55	9 1/2	3 1/2	56			
Spacing	51			51					
IS, Second, Third & Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	10	3 1/2	50	11	3 1/2	56			
Angles on upper edge									
Spacing	51			51					
IS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel									
Angles on upper edge									
Spacing									
S, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel									
Angles on upper edge									
Spacing									
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel									
Angles on upper edge									
Spacing									

PILLARS.				Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.
PILLARS, In 'tween Deck, size and spacing	2 1/8 dia spaced	51 1/8" and							
" " " " " " " "	7x3 1/2 x 3 1/2 x 40	2 rows spaced							
" " " " " " " "	5x5 x 44 x 40	13-15 ft. spaces							
" " " " " " " "	5x5 x 44 x 40	2 rows spaced							
" " " " " " " "	7x7 x 64 x 60	as approved							
" " " " " " " "	6x6 x 70 x 64	as approved							
KEELSONS AND STRINGERS.				Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.	Inches per Rule Or as Appro.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate									
" Rider Plate									
" Flat Keel Plate Angles									
" Horizontal Plates on Floors									
" Angles or Bulb Angles									
SIDE KEELSONS, Number									
" Angles or Bulb Angles									
" Plate above floors, for length									
" Intercostal Plate, for length									
" Attached to outside plating with Angle									
BILGE KEELSON, Angles									
" Intercostal Plate, for length									
" Attached to outside plating with Angle									
SIDE STRINGERS, Number	Two	in No 1 Hold							
" Angle	7	3 1/2	58	7	3 1/2	58			
" Intercostal Plate, for	42			42					
" Attached to outside plating with Angle	Flanged	3 1/2		Flanged	3 1/2				
Awning or Shelter Deck Stringer Plates, breadth and thickness	53-34	54-42		53-34	54-42				
" Angle on ditto	54 1/2 x 56	42 1/2 x 58		42 1/2 x 58					
" Tie Plates, fore and aft, outside Hatchways	3 1/2 x 3 1/2 x 42								
" Deck, * Steel, for whole lng.	42-38			42-38					
" Wood Deck, Material & thickness									
Upper Deck Stringer Plate, breadth and thickness	46-34	46-42		46-34	46-42				
" Angles on ditto, No. two	3 1/2 x 3 1/2 x 46			3 1/2 x 3 1/2 x 46					
" Tie Plates, outside Hatchways									
" Deck, * Steel, for whole lng.	34-30			34-30					
" Wood Deck, Material & thickness									
Second Deck Stringer Plates, br'dth & thckn's	46-34	42		46-34	42				
" Angles on ditto, No. two	3 1/2 x 3 1/2 x 46			3 1/2 x 3 1/2 x 46					
" Tie Plates, outside Hatchways									
" Deck, * Material and thickness	34-30			34-30					
Third, Fourth & Fifth Deck Stringer Plate, breadth and thickness									
" Angles on ditto, No.									
" Tie Plates, outside Hatchways									
" Deck, Material and thickness									
Poop Deck Stringer Plate, breadth & thickness									
" Angles on ditto									
" Tie Plates									
" Deck, Material and thickness									
Bridge Deck Stringer Plate, br'dth & thickness									
" Angle on ditto									
" Tie Plates									
" Deck, Material and thickness									
Forecastle Deck Stringer Plate, br'dth & th'kns									
" Angle on ditto									
" Tie Plates									
" Deck, Material and thickness									

* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

W1359-0104 1/2

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Lloyd's Register Foundation

Form No. 1B.

WEB FRAMES.

WEB-FRAMES, In Fore Body, No. and spacing *Three @ 8'-6" Three @ 8'-6"*
 " " breadth & thickness *26 1/4 48 26 1/4 48*
 " No. of Side Stringers " *Two 4'-2 1/2" face angle 7' x 3 1/2" x 58*
 WEB-FRAMES, In E. & B. Space, No. & spacing *Two @ 5' 6" frame sp. with 11' 6"*
 " " breadth & thickness *20 1/2 20 1/2 42*
 WEB-FRAMES, In After Body, No. and spacing *None none*
 " " breadth & thickness *33 1/4 33 1/4 40*
 " No. of Side Stringers " *Spaced 10 frame spaces*
 " Size of Face Angles to Web-Frames *7' x 3 1/2" x 62 7' x 3 1/2" x 62*
 BRACKET PLATES to Stringers between Web Frames, depth and thickness *none none*

BULKHEADS.

W.T. BULKHEADS *14 36-26 78' x 3 1/2" x 24 Sing. 14' 6"*
 " *42 36-26 71' x 3 1/2" x 27 " "*
 " *69 34-26 71' x 3 1/2" x 27 " "*
 " *93 34-26 71' x 3 1/2" x 27 " "*
 " *143 36-26 12' x 3 1/2" x 27 " "*
 " *172 40-26 18' x 3 1/2" x 27 " "*

COLLISION PARTITION

LONGITUDINAL

Are the outside Plates doubled two spaces of Frames in length? *No (Brackets)*
 Are the *(none)* Watertight Doors in efficient working order? *Yes*

FORGINGS or CASTINGS.

KEEL, Bar, depth and thickness *Plate keel*
 STEM, moulding and thickness *10 x 2 3/4 10 x 2 3/4*
 STERN-POST for Rudder do. do. *9 x 7 1/2 9 x 7 1/2*
 " for Propeller *10 x 7 1/2 10 x 7 1/2*
 RUDDER—A x D Table 22. Speed *12 K 146.59 x 3.74 = 548.2*
 Main-Piece, diameter at head *10 1/2 10 1/2*
 " at heel *8 8*

RUDDER, how constructed *Cast-steel frame*
 Thickness of *Single Plate* *1 1/2*
 Can the Rudder be unshipped afloat? *Yes*

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. *Lockawanna Steel Co. Ohio Steel Co. Alan Wood & S. Co. Phoenix Iron Works. Midvale Steel Co. Carnegie Steel Co. Jones & Laughlin*

PLATING.

STRAKES.

	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.		BUTTS.			
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	RIVETS.	IF LAPPED.
FLAT PLATE KEEL.....	46	96	68	68	46	96	Double	6 3/4	1 1/8	4 1/2	Quad	16-14
GARBOARD OF A Strake		62	46	46		62	"	5 1/4	7/8	3 1/2	Quad	12 1/2
B "		"	"	"		"	"	"	"	"	"	"
C "		"	"	"		"	"	"	"	"	"	"
D "		"	"	"		"	"	"	"	"	"	"
E "		"	"	"		"	"	"	"	"	"	"
F "		"	44	"		"	"	"	"	"	"	"
G "		"	"	48		"	"	"	"	"	"	"
H "		"	"	44		"	"	"	"	"	"	"
J "		"	"	"		"	"	"	"	"	"	"
K "		"	"	"		"	"	"	"	"	"	"
L "		64	"	"		64	"	"	"	"	"	"
M "	46	66	"	"	46	66	"	"	"	"	"	"
N "												
O "												
P "												
Q "												
R "												
S "												
T "												
U "												
V "												
W "												

THICKNESS OF SHEET PILE
 CLEAR OF LONG BRIDGE
 DO. OF STRAKE BELOW
 DBLG. of Flat Plate Keel
 " Sheerstrakes
 Length and thickness.
 POOP SIDES
 SHORT BRIDGE SIDES
 FORECASTLE SIDES

Awning or Shelter Deck Butts, III riveted for *half* length amidship.
 Stringer Plate *overlapped for whole length*
 Upper Deck Butts, III riveted for *half* length amidship.
 Stringer Plate *overlapped for whole length*

Butts of Side Stringers riveted.
 Tie Plates riveted.
 Inner Bottom Plating, riveting of Edges *mid. double mid III-II*
 Centre Girder Butts, *Tie* riveted. Keelson Butts, *III-II* riveted.
 Frames, riveted through Plates with *7/8* in. Rivets, about *7* dia. apart.
 Rivets, state whether Iron or Steel *Steel*

FRAMES extend in one length from *bilge* to *upper & 2nd deck attem.* State if ordinary or joggled *Joggled*
 REVERSED FRAMES on floors and frames extend from *Keel to upper dk in A.P.* State if ordinary or joggled *Ordinary*

MASTS, SPARS, &c.

	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
LOWER MASTS.....	Fore	63'-0"	26" x 44	24" x 44	20 x 30	Two	3L	3 x 6 x 42	Single	Double	
	Main	66'-0"	22" x 40	20" x 40	17 x 30	"	3L	3 x 3 x 40	"	"	
	Mizen										

Bowsprit
 Topmasts, *Yankee* and Remainder of Spars *Pine*
 Rigging, Material and Size, Shrouds *Fore, 2 a side 5 S.W. Main 2 a side 4 S.W. Stays Fore 5", Cap 3", Defenders 2-5"*
 Sails. *✓* Suit of *✓* Sails, and the following spare sails *Main 4", Cap 2", 1st & 2nd 2 1/2"*

EQUIPMENT No. *3390* LETTER *Y* ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE.		WEIGHT REQ. BY TABLE 31.		Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	Cwts.	qrs.	Tons.	cwts.	qrs.	lbs.			
4356	1st Bower	60	0	10	0	48	4	2	0	56	3	10
4357	2nd "	58	3	25	0	44	15	0	0	56	3	9
4358	3rd "	58	3	5	0	44	12	2	0	56	3	9
5803	Collective weight	174	3	12	0	144	2	0	0	174	2	0
5821	Stream	16	2	2	0	4	2	6	0	16	1	0
	Kedge	7	0	26	0	9	9	1	14	4	0	0

Particulars of Drop Test of Cast Steel Anchors, viz.:—
 Weight, Surveyor's Initials, Number of Certificate, Date of Test.

	1st Bower	2nd "	3rd "
60-0-10 Cwts.	7.0	4356	1/6/14
58-3-25 "	7.0	4357	1/6/14
58-3-5 "	7.0	4358	1/6/14

CHAIN CABLES.

Number of Certificate.	Length and Size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Table 31.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire Towline.	Fathoms and Size per Table 31.
			Supplied.	Per Rule.						Length.	Size.		
18912	270 2 1/2	270 2 1/2	120 4 1/2	0 4 1/2	270 2 1/2	S.L.	R. Sykes & Co. Ltd.	9/1/16	9/1/16	120 4 1/2	48-05	120 4 1/2	
	4 phase shackles	4-0-14											
	2 Sea Line Slips	10-0-21											
	90 4 1/2	66-58			90 4 1/2	S.W.	Yokohama Kosei Kaisha	Makers Cert.					

HAWSERS AND WARPS.

Number of Certificate.	Length and Size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Table 31.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire Towline.	Fathoms and Size per Table 31.
			Supplied.	Per Rule.						Length.	Size.		
	120 4 1/2	48-05			120 4 1/2	S.W.	Yokohama Kosei Kaisha	Makers Cert.					
	2-90 8"	2-90 8"			2-90 8"								
	2-90 4"	2-90 4"			2-90 4"								

Boats *2 Life, 28-0 x 8-6 x 3-7/8. Gig 19-0 x 5-0 x 3-0* Steering Gear, Steam *By Builders* Steering Gear, Hand *By Builders*
 Pumps, Number *Downton 8 1/2 to 5 P. & 1 Jemma.* Diameter of Barrel *5 1/2 x 4 1/2* State whether they are in efficient working order *Yes*
 Windlass is *by Builders* and Capstan drums or Windlass.
 Engine Room Skylights.—How constructed? *Plates & angles* What arrangements for deadlights in bad weather? *Glass in steel frame*
 Coal Bunker Openings.—How constructed? *Plates & angles* How are lids secured? *2 1/2 hatchboards* Height above deck? *2'-0"*
 Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *8 scuppers a side. Open rail except in way of Centre Houses*
 Ceiling in Holds, thickness and material *2 1/2 pine under h'ways.* Cargo Battsens, thickness and material *2 1/2 pine in holds & all timbers.*
 Cargo Hatchways.—How formed? *plates & angles* Hatches, If strong and efficient? *Yes*
 State size No. 1 Hatch (Forward) *27-7 1/2 x 18-0* No. 2 Hatch *31-10 1/2 x 18-0* No. 3 Hatch *12-9 x 16-0* No. 4 Hatch *31-10 1/2 x 18-0*
 Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *No 2 & 4 2 1/2 webs.* No. 5 " *27-7 1/2 x 18-0*
 No. 1 & 5 five webs. No. 3. three webs. No. of Breasthooks *7 with desks* No. of Crutches *deep floors.*
 Bulwarks, height above deck and description *Open rail & 3 1/2 x 26 plate* Main Rail and Stays, material and size *amid 5 x 2 1/2 x 34 B.P.*
 The foregoing is a correct description of the vessel and its equipment.
 Builder's Signature (here enter) *James J. Mack* Surveyor's Signature *Alexander Watt* Surveyor to Lloyd's Register of Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)
M. 16 May 7 10 May 1916 H 28 May 8 16 March 1917

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*
 Is the riveted work properly closed? *Yes*
 Are the liners between the frames and plates solid single pieces? *Jagged framings* Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *Yes* Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *Yes* Do any rivets break into or through the seams or butts of the plating? *No*
 Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*
 Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? *Yes* State results of tests *Satisfactory*
 Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? *Yes* State results of tests *do*
 General Remarks (State quality of workmanship, &c.) *This vessel has been built under Special Survey in accordance with the Rule requirements & the materials & workmanship are good. Photographs of Midship Section & profile & deck plans are forwarded under separate cover.*
Sister vessels reported are the S.S. "War Queen" (Rpt No 2009) "War Prince" (2031) etc. "Sufuku Maru" "Raifuku Maru" etc.

The Surveyor should state the Number of Report and Name of any Sister Vessel.
 Plans to be forwarded with F.E. Report showing vessel as built.

The amount of Entry Fee *4m : 50* Fees applied for, *10 Jan 1919*
 Special Survey Fee.... *4m : 3000* Received by me, *15 Jan 1919*
 Travelling Expenses, if any *4m : 15*
 State whether the Vessel has been built under Special Survey *Yes*
 I am of opinion this Vessel should be Classed *+100 A1 Shelter Deck*
 With, or without Freeboard, as condition of Class *With freeboard*
 Committee's Minute *FRI 21 MAR 1919*
 Character assigned *100 A1. Awning dk. with fld*
A & B P. + P.M.O 1:19 18

Surveyors are required to certify as to the correctness of the particulars entered on this form.

Lloyd's Register Foundation

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ 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 brs (Steel) & Shutter dx (Steel)

Official No. 24076; Signal Letters R.C.T.B. State if Machinery is fitted aft No
How are the surfaces preserved from oxidation? Inside Cement & paint Outside Paint.

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors.

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<u>116.9</u>	<u>342</u>	Fore peak tank,		<u>126.0</u>
Double bottom, under Engines and Boilers,	<u>44.6</u>	<u>182</u>	After peak tank,		<u>93.0</u>
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	<u>172.1</u>	<u>594</u>	Other tanks, if fitted,		
	Total capacity of double bottom <u>1118</u>		(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks. 33

State whether the above have been tested as required by the Rules. Yes

Order for Special Survey No.

Date

No. 429 in builder's yard.

Dates of Surveys held while building

19 Sept. 7. 9. 11. 14. 21. 24. 25. 29 Oct. 1. 3. 7. 18. 22. 25. 28. 30 Nov.
6. 7. 12. 21. 25. 27 Dec 1918. 8th Jan'y 1919

Total No. of Visits 24

Surveyor's Signature

A. L. Jones

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