

STEEL STEAMER.

Received at London Office

State if Report is also sent on the Machinery of the Vessel *Yes*

Date of completion of report	15 th July 1911	Port of	Sunderland.	No.	24908
Survey held at	Sunderland	Date, First Survey	26 th August 1908	Last Survey	13 th July 1911
On the	Steel Screw Steamer	"	"	"	"
TONNAGE under Tonnage Deck...	4590.32	CLASS	100 A1.	Master	K. Ishii
Do. between Tonnage Dk. and 1 st Dk.		Breadth (greatest moulded)	53.25	Year of appointment	(1) As Master in service of owner of present vessel: 1911 (2) As Master of this vessel
Total under Upper Dk.	4590.32	Depth, at middle of length from top of keel to top of upper deck beams at side	29.5	Built at	Sunderland
Do. of Poop	74.87	Transverse Number	82.87	When built	1911
Do. of R.C. Dk. (Trunk in Bridge)	55	Length on deck from fore part of stem to after part of stern post	380.0	Launched	10 th May 1911
Do. of Bridge House	24.0	Longitudinal Number	31490	By whom built	J. L. Thompson & Sons Ltd.
Do. of Forecastle	63.00	Depth "d," at middle of length (See Secs. 2 & 13)	18.62	Owners	Mitsui Bussan Kaisha Ltd.
Do. of Houses on Dk.	82.29	Proportions—Depth to Length—Upper Deck Beam at side to top of keel	12.83	Managers	D. D.
Do. of excess of Hatchways	171.61	" " Long Bridge Deck Beam at side to top of keel	10.10	(Where necessary to be entered in Reg. Book.)	
Do. above Crown of Engine Room		Destined Voyage	Japan via Middle East	Residence	Tokio.
Gross Tonnage	4985.04	Port belonging to	Mitsui	Built under	Special Survey
As Crew Space	111.77				
As above Crown of Engine Room					
SNAGE FOR FEES..	4873.27				
As Engine Room	1595.21				
As Navigation Spaces	608.18				
Register Tonnage	2669.88				
As cut on Beam					

LENGTH on Deck as per Rule		Fect.	Inches.	BREADTH—Moulded		Fect.	Inches.	DEPTH, ACTUAL—Top of Floor to top of Upper Dk. Beams				Fect.	Inches.	No. of Decks with flat laid	
380	0	6'3	3	do.	do.	do.	do.	do.	do.	do.	do.	27	24	One	
														No. of Tiers of Beams	One

Dimensions of Ship per Register. Length 380.7 breadth 53.6 depth 27.15. Moulded depth, ft. 37 ins. 7½ To Bridge Dk. Round of Upper }
 Moulded depth, ft. 29 ins. 7½ To Upper Dk. Dk. Beam, Actual } 13¼ ins.

[illegible][illegible]

Spacing of Frames from centre to centre amidships	36.	36.	KEELSONS & STRINGERS.					
" " " " from $\frac{1}{2}$ } length to Collision bulkhead)	27.	27.	CENTRE LINE KEELSON, Vertical Plating, or Floors, Through Plate, or Intercoastal Plate					
" " " " in peaks..	24.	24.	Inches in Ship. Inches in Ship. Inches in Ship. Inches per Rule. Inches per Rule. Inches per Rule.					

REVERSED FRAME, Angles.....	None filled.						Under Plates.....	
Do. in way of Double Bottoms at Solid Floors...	3½	3½	44	3½	3½	44	Flat Plate Keel Angles.....	
at 27 spacing	3½	3½	38	3½	3½	38	Horizontal Plates on Floors.....	
at intermediate Dists.							Angles or Bull Angles.....	

FRAMING , depth of girder	Cantilever framing with top side tanks.		SIDE KEELSONS , Number	
FLOORS , depth and thickness of Floor Plates	44-40	44-40	" Angles or Built Angles	8-10
in tanks at mid line for a length amidships 27' spacing	38	38	" Plate above floors, for length	
" in way of Engine and Boiler Spaces	44-50	44-50	" Interceal Plate, for length	

[illegible]

FLOORS & BRACKETS in Cell Dble Rm.		27	38	38	SIDE STRINGERS, Number None except in N.I. hold 7 in en	
"	state if flanged (top & bottom) Flanged on top				Angle	None
"	Spacing	36	27	36	27	6 1/2 3 1/2 60 6 1/2 3 1/2 60
CENTRE CURB in Dbl bottom dpth & thickness		42	50	42	50	Intercoastal Plate, for full length
						2 1/2 2 1/2 42 2 1/2 2 1/2 42

"	"	Angles, Top	10.5	4.5	.60	4.5	4.5	.60	"	Attached to outside plating with Angle.....	54	52	42	52	52	42
"	"	Bottom.....	4.5	4.5	.60	4.5	4.5	.60	"	Torsion Ballast Pan for fire	54	52	42	52	52	42
"	"	to Floors	6	6	.50	6	6	.50	"	Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	64	60	64	60	64	60
"	"								"	br'dth & thickness	64	48	64	48	64	48

SIDE GIRDERS , number on each side & thickness		Two 40	Two 40	(in way of Bridge)
state if flanged (top and bottom)		No flanging.		Angle (clear of Bridge) ... 5' x 6" 66 5' x 6" 66
Angles (top and bottom)		3 1/2 3 1/2 4 1/2	3 1/2 3 1/2 4 1/2	Tie Plate at sides of Hatchways..... <i>Plating increased above</i>
				Deck * Iron or Steel, for <i>full</i> lng.

"	"	to Floors.....	3	3	"	3	3	"	"	Thickness (clear of Bridge)	42-	34	42-	34
MARGIN PLATE, depth (exclusive of flange) and thickness.....)			3 1/2	4 1/2	3 1/2	4 1/2	"	"	"	(in way of Bridge)	36		36	
			3 1/2	3 1/2	4 1/2	3 1/2	3 1/2	4 1/2	"	Wood Deck. Material & thickness	None			
"	"	Angles to Outside Plating.....	2 1/2	2 1/2	2 1/2	2 1/2	Second Deck Stringer Plate, breadth & thickness							

"	"	"	Floors	52	52	44	52	52	44	"	Angles on ditto, No.
"	"	"	Height of Brackets above at bilge	4'-0"			4'-0"			"	Tie Plates outside Hatchways
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake)				42		50	42		50	"	Deck, * Iron or Steel, for
				65		38				"	Wood Deck, Material & thickness
in Engine and Boiler space				48	71	56		48	71	56	

"	"	"	in Engine and Boiler space	46	42	8-36	46	42	8-36	Wood Deck, Stringer Plates
"	"	"	Remainder in Holds.....	46	42	8-36	46	42	8-36	Third Deck Stringer Plate, breadth & thickness
BEAMS, Upper Deck, Single Angle, Bulb				9	3½	50	9	3½	50	Angles on ditto, No.
"	"	"	Angle, Plate, Tee Bulb, or Channel	on opposite banks as per plans						
"	"	"	Angles on upper edge							

"	In way of Long Bridge	9	3 $\frac{1}{2}$	50"	9	3 $\frac{1}{2}$	50"	"	Deck, Material and thickness		
"	Spacing	36"	27"	36"	27"			"	Fourth and Fifth Deck Stringer Plate, breadth & thickness		
BEAMS, Second Deck, Single Angle, Bulb								"	"	"	Angles on ditto, No.
Angle, Plate, Tee Bulb, or Channel								"	"	"	Tie Plates outside Hatchways

[illegible]

	Angles on upper edge				"	Deck. Material and thickness	<i>Skel</i>	.30	. 30</td
	Spacing				"	Bridge Deck Stringer Plate, br'dth & thickness	60	.54	60 .8
BEAMS, Poop Deck, Angle, Bulb Angle, Plate,		6½	3	.40	6½	3	.40		
Tee Bulb, or Channel									
Angles on upper edge					"	Angle on ditto	5x6	.58	5x5 .5
					"	Tie Plates	<i>One shape increased above</i>		

"	Spacing	24"	36"	24"	36"	"	Deck. Material and thickness	Steel	.38"	.38"
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate,						Forecastle Deck Stringer Plate, b'dth & th'kns		42"	34"	34"
Tea Bulb, or Channel		8"	8"	50"	8"	3"	36"	34"	36"	34"
"	Angles on upper edge					"	Angle on ditto			

"	Spacing	36	36	"	Tie Plates	Wood Sheathing $\frac{1}{2}$ "
BEAMS, Forecastle Deck, Angle, Bulb Angle, } Plate, Tee Bulb, or Channel.....}	9	3 $\frac{1}{2}$.60	9	3 $\frac{1}{2}$.60	"	Deck. Material and thickness Steel .30 .30
"	Angles on upper edge	2" x 2"	2" x 2"			

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

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

WEB FRAMES. Inches in Ship. Inches in Ship. Inches per Rule. Inches per Rule. FORGINGS or CASTINGS. Inches in Ship. Inches per Rule. Or as Approved. KEEL, Bar, depth and thickness. STEM, moulding and thickness. STERN-POST for Rudder do. do. RUDDER-Axle Table 22. Speed 10 1/2 knots. Main-Piece, diameter at head. RUDDER, how constructed. Thickness of Plates or Single Plate. Can the Rudder be unshipped afloat? 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. COLLISION PARTITION LONGITUDINAL Are the outside Plates doubled two spaces of Frames in length? Are the Staircase Valves and Watertight Doors in efficient working order? PLATING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. EDGES. BUTTS. RIVETING. BUTTS. IF LAPPED. FLAT PLATE KEEL. GABBOARD OF A STRAKE. SHEERSTRAKES. POOP SIDES. FORECASTLE SIDES. UPPER DECK STRINGER PLATE. SECOND DECK STRINGER PLATE. FRAMES extend in one length from Centre Line to margin Plate & from margin Plate to outside bulkhead & thence to upper deck & gunwale. REVERSED FRAMES on floors and frames extend from Centre Line to margin plate. MASTS, SPARS, &c. LOWER MASTS. Bowsprit. Topmasts. Riggers, Material and Size, Shrouds. Sails. Sails, and the following spars sails.

Mechanical Tests: 8 May 22-3-11. 22-3-11. 22-3-11. EQUIPMENT No. 32886. LETTER. ANCHORS. TONNAGE U.D.K. OR PLATING No. FOR TRAWLERS. CHAIN CABLES. HAWSERS AND WARPS. Boats. Steering Gear, Steam. Steering Gear, Hand. Pumps, Number. Windlass. Engine Room Skylights. Coal Bunker Openings. Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. Ceiling in Holds, thickness and material. Cargo Hatchways. State size No. 1 Hatch (Forward). No. 2 Hatch. No. 3 Hatch. No. 4 Hatch. Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch. No. of Breasthooks. No. of Crutches. Bulwarks, height above deck and description. The foregoing is a correct description. Builder's Signature. Surveyor's Signature. Correspondence. Workmanship. Is the riveted work properly closed? Are the liners between the frames and plates solid single pieces? Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Are the rivet holes well and sufficiently countersunk in the plate and punched from the facing surfaces? Do any rivets break into or through the seams or butts of the plating? Are the butts of Plating, Stringers, &c., properly shifted and strapped or lapped? Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? General Remarks. This vessel has been constructed in accordance with the approved plans. The Secretary's Letters as mentioned above, & in other respects in compliance with the requirements of the Rules. The material & workmanship are good. The hull has been tested & found to be watertight. The freeboard assigned in the Secretary's Letter dated 29th June 1911 has been duly marked & verified on the vessel's side. Sunderland Freeboard Report No. 24888. This is a duplicate vessel to the SS. "Kinkasan Maru" No. 659 by Messrs. Rayson Dixon & Co. Ltd. The Surveyor should state the Number of Report and Name of any Sister Vessel. The amount of Entry Fee. Special Survey Fee. Travelling Expenses, if any. State whether the Vessel has been built under Special Survey. I am of opinion this Vessel should be Classed. With or without Freeboard, as condition of Class. Committee's Minute. Character assigned. Lloyd's 4960. 10001. 2nd 7/11.

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 38.25ft., R.Q.D. 4ft., Bridge 110.7ft., Forecastle 36.27ft. (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) 1 Dth S^d Cantilever framed topside tanks.
Official No. ; Signal Letters 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,	126	391	Fore peak tank,	-	107
Double bottom, under Engines and Boilers,			After peak tank,	-	101
Double bottom, if under Engines only,	21	86	Deep tank, aft, Poop tanks	-	150
Double bottom, if under Boilers only,	18	73	Deep tank, forward, Topside Tanks		
Double bottom, forward,	167.3	576	Other tanks, if fitted, (5 on each side)		14 16
Total capacity of double bottom		1126	(If necessary, furnish further information by sketch.)		

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

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

Order for Special Survey No. 4822
Date 10.8.10
No. 481 in builder's yard.
Dates of Surveys held while building
190 Aug 24, 29, 30 Sep 7, 8, 23 Oct 6, 18, 25 Nov 1, 4, 10, 11, 14, 15, 24, 29 Dec 2, 7, 8, 9, 14, 15, 19, 21, 29, 30
1911 Jan 4, 11, 13, 16, 18, 19, 25, 26 Feb 1, 3, 6, 9, 12, 21, 22 Mar 2, 3, 8, 10, 14, 21, 23, 25, 28, 29, 31 Apr 4, 6, 11, 13
13, 19, 25, 27, 28 May 2, 5, 9, 10, 12, 17, 18, 23, 26 Jun 12, 27, 28, 30 Jul 14, 5, 6, 7, 12, 13

Surveyor's Signature

J. S. Shute

Total No. of Visits 82

