

With or Without
Disconnected Erections.

STEEL STEAMER.

THU. 21577 1916
Received at London Office

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

Date of completion of report *22 Aug. 1916*
Survey held at *Nagasaki*

Port of *Nagasaki*
Date, First Survey *29 May 1915*

No. *1083.*
Last Survey *Aug 16.* 1916

On the (State if Single, Twin, or Triple Screw) *Twin S.S. gear turbine "TOKIWA MARU"* Rig *Schooner*

TONNAGE under	
Tonnage Deck...	
Do. between Tonnage Dk. and 3rd and 4th Dk.	
Total under Upper Dk.	<i>6468.96</i>
Do. of Poop	<i>118.95</i>
Do. of R.Q.Dk.	
Do. of Bridge House	<i>338.89</i>
Do. of Forecastle	<i>54.51</i>
Do. of Houses on Dk.	<i>203.56</i>
Do. of excess of Hatchways	<i>42.37</i>
Do. above Crown of	<i>34.56</i>
Room ..	
Tonnage	<i>7261.80</i>
no Space	<i>340.84</i>
ve Crown of	<i>34.56</i>
Room ..	
FOR FEES..	<i>6876.40</i>
gine Room	<i>2323.78</i>
igation Spaces	<i>77.31</i>
anks	<i>30.26</i>
er Tonnage	<i>4489.61</i>
on Beam ..	

CLASS <i>+100 A.1.</i>		FEET.
Breadth (greatest moulded)		<i>58.0</i>
Depth, at middle of length from top of keel to top of upper deck beams at side		<i>34.0</i>
Transverse Number		<i>92.0</i>
Length on deck from fore part of stem to after part of stern post		<i>445.0</i>
Longitudinal Number		<i>40,940.0</i>
Depth "d," at middle of length (See Secs. 2 & 13)		<i>19-6 1/2</i>
Proportions—Depth to Length—Upper Deck Beam at side to top of keel		<i>13.09</i>
" " Long Bridge Deck Beam at side to top of keel		<i>10.06</i>

Master *K. Okamatsu*
Year of appointment *(1) As Master in service of owner of present vessel—1909 (2) As Master of this vessel Aug 1916*
Built at *Nagasaki*
When built *1916* Launched *9 Jan. 1916.*
By whom built *Mitsubishi D. & C. Mks.*
Owners *Nippon Yusen Kaisha*
Managers *D.O.*
(Where necessary to be entered in Reg. Book.)
Residence *Tokio*
Port belonging to *Tokio*

Destined Voyage *Manila*

If Surveyed while Building, Afloat, or in Dry Dock *Building*

FEET.	INCHES.	BREADTH—	FEET.	INCHES.	DEPTH, ACTUAL—	FEET.	INCHES.	No. of Decks with flat laid
445	0	Moulded	58	0	Top of Floors to top of Upper Dk. Beams	31	4 1/2	2
		Do.			Do. do. do. do. Second Dk. Beams	21	1 1/2	2
		Moulded depth, ft. <i>42</i> ins. <i>0</i>		To Bridge Dk. Round of Upper Dk. Beam, Actual				<i>14 1/2</i> ins.
		Moulded depth, ft. <i>34</i> ins. <i>0</i>		To Upper Dk.				

FRAMING.				PILLARS.				KEELSONS & STRINGERS.					
	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as	Inches per Rule	Inches per Rule	Inches per Rule	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
ME, Angles, or Bars amidships	12	3 1/2	68	12	3 1/2	68		PILLARS, In 'tween Deck, size and spacing	3	Row	width	spaced	
in peaks	8	3 1/2	46	8	3 1/2	46		" " Hold	"	"	"	"	
in way of Double Bottoms at Solid Floors.	4 1/2	3 1/2	44	4 1/2	3 1/2	44		" Quarter 'tween Dks.,	"	"	"	"	
" " at intermdt. Bkts.	8 1/2	3 1/2	48	8 1/2	3 1/2	48		" in Hold	"	"	"	"	
ing of Frames from centre to centre amidships		36			36			CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate					
" " from 1/2 length to Collision bulkhead		27			27			" Rider Plate					
" " in peaks..		24			24			" Flat Plate Keel Angles					
ERSED FRAME, Angles								" Horizontal Plates on Floors					
in way of Double Bottoms at Solid Floors..	3 1/2	3 1/2	44	3 1/2	3 1/2	44		" Angles or Bulb Angles					
" " at intermdt. Bkts.	8	3 1/2	46	8	3 1/2	46		SIDE KEELSONS, Number					
MING, depth of girder		12			12			" Angles or Bulb Angles					
ORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships..								" Plate above floors, for length...					
in way of Engine and Boiler Spaces								" Intercoastal Plate, for length					
thickness at the ends of vessel								" Attached to outside Plating with Angle...					
depth at 1/2 the half breadth, as per Rule								BILGE KEELSON, Angles					
height extended at the Bilges								" Intercoastal Plate for length					
ORS in Cell. Double Bottoms.								" Attached to outside Plating with Angle					
state if flanged (top & bottom).....								SIDE STRINGERS, Number 3					
Spacing of Solid floors								" Angle					
PRE GIRDER, in Dbl. bottom, dpth. & thknss.								" Intercoastal Plate, for length					
" Angles, Top								" Attached to outside plating with Angle.....					
" " Bottom								Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)					
" " to Floors								" " br'dth & thickness (in way of Bridge)					
Brackets at intermdt. frmng., wdth & thknss								" Angle (clear of Bridge)					
GIRDERS, number on each side & thickness								" Tie Plate at sides of Hatchways.....					
state if flanged (top and bottom)								" Deck. * Iron or Steel, for whole lng.					
" Angles (top and bottom)								" Thickness (clear of Bridge)					
" " to Floors.....								" (in way of Bridge)					
GIN PLATE, depth (exclusive of flange) and thickness.....								" Wood Deck. Material & thickness					
" Angle to Outside Plating.....								Second Deck Stringer Plate, br'dth & thickness					
" " Floors								" Angles on ditto, No. 2					
Brackets at intermdt. frmng., wdth & thknss								" Tie Plates outside Hatchways					
Height of Outside Brackets above at bilge								" Deck. * Iron or Steel, for whole lng.					
R BOTTOM PLATING, breadth and thickness of Middle Line Strake								" Wood Deck. Material & thickness					
" " in Engine and Boiler space								Third Deck Stringer Plate, br'dth & thickness					
" " Remainder in Holds.....								" Angles on ditto, No.					
IS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel								" Tie Plates, outside Hatchways.....					
In way of Long Bridge								" Deck. * Material and thickness					
Spacing								Fourth and Fifth Deck Stringer Plate, breadth & thickness					
IS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel								" Angles on ditto, No.					
Spacing								" Tie Plates outside Hatchways					
IS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel								" Deck. Material & thickness					
Angles on upper edge								Poop Deck Stringer Plate, breadth & thickness					
Spacing								" Angle on ditto					
IS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel								" Tie Plates					
Angles on upper edge								" Deck. Material and thickness					
Spacing								Bridge Deck Stringer Plate, br'dth & thickness					
IS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel								" Angle on ditto					
Angles on upper edge								" Tie Plates					
Spacing								" Deck. Material and thickness					
AMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel								Forecastle Deck Stringer Plate, br'dth & th'kns					
Angles on upper edge								" Angle on ditto					
Spacing								" Tie Plates					
								" Deck. Material and thickness					

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

Form No. 1A. WEB FRAMES. FORGINGS or CASTINGS. BULKHEADS. PLATING. RIVETING. FRAMES extend in one length from Margin to Upper 2nd St. all and 7th. REVERSED FRAMES on floors and frames extend from flanged plating, b. a. frames. MASTS, SPARS, &c. LOWER MASTS. Main Mizzen. Bowsprit. Topmasts, Yards and Remainder of Spars. Rigging, Material and Size, Shrouds. Sails.

EQUIPMENT No. 42557. LETTER bt. ANCHORS. TONNAGE U.D.K. OR PLATING No. FOR TRAWLERS. CHAIN CABLES. HAWSERS AND WARPS. Boats 6. Steering Gear, Steam. Steering Gear, Hand. Pumps, Number 1 to fore peak 4. Windlass is Steam Emerson. Engine Room Skylights. Coal Bunker Openings. Number of Scuppers. Ceiling in Holds. Cargo Hatchways. Bulwarks, height above deck and description. Correspondence. Workmanship. Is the riveted work properly closed? Are the liners between the frames and plates solid single pieces? to plate, &c., conform well to each other? from the faying surfaces? Are the butts of plating, Stringers, &c., properly shifted and strapped? 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 (State quality of workmanship, &c.). Sister vessel to Tsuruga Maru. The amount of Entry Fee. Special Survey Fee. Travelling Expenses. 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.

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 35 ft., R.Q.D. 1 ft., Bridge 138 ft., Forecastle 34.75 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 it should appear in the Register Book) 2 Dks (steel)

Official No. 1011; Signal Letters 1011

State if Machinery is fitted aft 20

How are the surfaces preserved from oxidation? Inside N^o 4 tank bit except shell tank Outside Paint
top in Boiler room & lampers. Cement & paint otherwise

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<u>126</u>	<u>348</u>	Fore peak tank,	<u>22</u>	<u>58</u>
Double bottom, under Engines and Boilers,	<u>78</u>	<u>340</u>	After peak tank,	<u>16</u>	<u>61</u>
Double bottom, if under Engines only,			Deep tank, aft,	<u>42</u>	<u>124.8</u>
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	<u>182</u>	<u>644</u>	Other tanks, if fitted,		
	Total capacity of double bottom	<u>1332</u>	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks. 386

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

Order for Special Survey No.

Date 30 Mar 1915

No. 249 in builder's yard.

DATES of Surveys held while building

1915
May 29-June 3-7-17-22-24-30-July 2-6-12-19-20-27-28-Aug 7-9-10-19-20-23-25-30-
Sept. 3-9-13-14-15-17-18-20-22-23-24-25-27-30-Oct. 1-4-5-6-15-23-29-Nov. 2-4-5-11-17-19-22-24-26-27
27-Dec. 2-3-9-10-13-16-18-20-22-24-27-1916
Jan. 7-9-12-Feb. 2-7-8-23-Mar-Apr. 1-May-June 29
July 11-19-27-Aug 3-15-16.

Total No. of Visits 80

Surveyor's Signature

G. D. Aisher

Lloyd's Register Foundation