

With or Without Disconnected Erections.

STEEL STEAMER.

WED. 9 AUG. 1922

Received at London Office

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

Date of completion of report 30th June, 1922.

Port of NAGASAKI.

No. 1364.

Survey held at NAGASAKI.

Date, First Survey 3rd September 1920. Last Survey 7th June, 1922.

On the Steel Twin Screw Steamer "HAKOZAKI MARU" Rig Schooner.

TONNAGE under 8392.20
Tonnage Deck...
Do. between Tonnage Dk. and 3rd and 4th Dk. 8392.20
Total under Upper Dk. 373.67
Do. of Poop 581.27
Do. of R.Q. Dk. 82.25
Do. of Bridge House 963.92
Do. of Houses on Dk. 20.00
Do. of excess of Hatchways above Crown of Engine Room 10413.31
Gross Tonnage 601.27
Less Crew Space 9812.04
Less above Crown of Engine Room 3332.26
Less Navigation Spaces 93.45
Less Peak tanks. 75.94
Register Tonnage 6310.39

CLASS 100A1. 79265
Breadth (greatest moulded) 62.0
Depth, at middle of length from top of keel to top of upper deck beams at side 37.0
Transverse Number 99.0
Length on deck from fore part of stem to after part of stern post 495.0
Longitudinal Number 49005
Depth "d," at middle of length (See Secs. 2 & 13) 23.0
Proportions—Depths to Length—Upper Deck Beam at side to top of keel 13.38
" " Long Bridge Deck Beam at side to top of keel 10.76
Destined Voyage United Kingdom. If Surveyed while Building, Afloat, or in Dry Dock While Building.

Master M. Fujio.
Year of appointment (1) As Master in service of owner of present vessel—191 (2) As Master of this vessel—191
Built at Nagasaki, Japan.
When built 1922. Launched 2nd Mar. 1922.
By whom built Mitsubishi Zosen Kaisha, Ltd.
Owners Nippon Yusen Kabushiki Kaisha.,
Managers /
Residence Tokio, Japan.
Port belonging to Tokio, Japan.

LENGTH on Deck as per Rule 495 0 BREADTH—Moulded 62 0 DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams 34 2 25 5 2 No. of Decks with flat laid Holds 2: 3 in No. 1, 3 & 4. No. of Tiers of Beams Ditto.

Moulded depth, ft. 46 ins. 0 To Bridge Dk. Round of Upper Dk. Beam, Actual 15 1/2 ins.
Moulded depth, ft. 37 ins. 0 To Upper Dk.

FRAMING.				PILLARS.			
Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship
ME, Angles, or or amidships 12x3 1/2 x 3 1/2 .60	12x3 1/2 x 3 1/2 .60	12x3 1/2 x 3 1/2 .60	12x3 1/2 x 3 1/2 .60	PILLARS In 'tween Deck, size and spacing			
in peaks B.A. 9 3 1/2 .475	9 3 1/2 .475	9 3 1/2 .44	9 3 1/2 .44	" " Hold		Widely Spaced	
in way of Double Bottoms at Solid Floors 3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	" " Quarter 'tween Dks.,		Pillars.	
" " at intermdt. Bkts. 9 3 1/2 .475	9 3 1/2 .475	9 3 1/2 .46	9 3 1/2 .46	BA. " in Hold		As per Profile.	
ing of Frames from centre to centre amidships 36	36	36	36	KEELSONS & STRINGERS.			
" " from 1/2 length to Collision bulkhead 27	27	27	27	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
" " in peaks 24	24	24	24	" Rider Plate			
VERSED FRAME, Angles, to 2nd Dk. 3 1/2 3 1/2 .56	3 1/2 3 1/2 .56	3 1/2 3 1/2 .56	3 1/2 3 1/2 .56	" Flat Plate Keel Angles			
o. in way of Double Bottoms at Solid Floors 3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	" Horizontal Plates on Floors			
" " at intermdt. Bkts. 8 3 1/2 .45	8 3 1/2 .45	8 3 1/2 .46	8 3 1/2 .46	BA. " Angles or Bulb Angles			
AMING, depth of girder 12	12	12	12	SIDE KEELSONS, Number			
DOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships				" Angles or Bulb Angles			
" in way of Engine and Boiler Spaces				" Plate above floors, for length			
" thickness at the ends of vessel				" Intercoastal Plate, for length			
" depth at 1/2 the half breadth, as per Rule				" Attached to outside Plating with Angle			
" height extended at the Bilges				BILGE KEELSON, Angles			
DOORS in Cell, Double Bottoms, except state if flanged (top & bottom) Yes, A.E.S. & Ford of 1/2 L&B. 49x.46 .54BS 49x.46 .54BS	49x.46 .54BS 49x.46 .54BS	49x.46 .54BS 49x.46 .54BS	49x.46 .54BS 49x.46 .54BS	" Intercoastal Plate for length			
" Spacing of Solid floors 72	72	72	72	" Attached to outside Plating with Angle			
INTRE GIRDER, in Dbl. bottom, dpth. & thcknss. 49	49	49	49	SIDE STRINGERS, Number Two			
" Angles, Top Single 5 5 .62	5 5 .62	5 5 .62	5 5 .62	PANTING, Face Angle 4 4 .62	4 4 .62	4 4 .62	4 4 .62
" " Bottom Double 6 6 .56	6 6 .56	6 6 .56	6 6 .56	" Intercoastal Plate, for W length 30 42 30 42	30 42 30 42	30 42 30 42	30 42 30 42
" " to Floors Single 6 6 .56	6 6 .56	6 6 .56	6 6 .56	" Attached to outside plating with Angle 6 6 .54	6 6 .54	6 6 .54	6 6 .54
" Brackets at intermdt. frmg., wdth & thkns 42	42	42	42	Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge) Two 50"x.78 Two 50"x.78	Two 50"x.78 Two 50"x.78	Two 50"x.78 Two 50"x.78	Two 50"x.78 Two 50"x.78
SIDE GIRDERS, number on each side & thickness Two .46	Two .46	Two .46	Two .46	" " " " (br'dth & thickness) Two 50"x.52 Two 50"x.52	Two 50"x.52 Two 50"x.52	Two 50"x.52 Two 50"x.52	Two 50"x.52 Two 50"x.52
" state if flanged (top & bottom) Yes	Yes	Yes	Yes	" " " " (in way of Bridge) 6 x 6 x .78 6 x 6 x .78	6 x 6 x .78 6 x 6 x .78	6 x 6 x .78 6 x 6 x .78	6 x 6 x .78 6 x 6 x .78
" Angles (top & bottom) 3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	" " " " Angle (clear of Bridge) Double at bridge ends	Double at bridge ends	Double at bridge ends	Double at bridge ends
" " to Floors Flanged 3" F.S. Flg. 3" F.S.	3" F.S. Flg. 3" F.S.	3" F.S. Flg. 3" F.S.	3" F.S. Flg. 3" F.S.	" " Tie Plate at sides of Hatchways			
MARGIN PLATE, depth (exclusive of flange) 48	48	48	48	" Deck * Iron or Steel, for Whole lng.			
" and thickness 4	4	4	4	" Thickness (clear of Bridge) .60 - .36 .60 - .36	.60 - .36 .60 - .36	.60 - .36 .60 - .36	.60 - .36 .60 - .36
" Angle to Outside Plating 4 4 .54	4 4 .54	4 4 .54	4 4 .54	" " (in way of Bridge) .46	.46	.46	.46
" " Floors Single 3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	3 1/2 3 1/2 .50	" Wood Deck. Material & thickness 0. Pine 3 1/2 exp 3" 3 1/2 exp 3"	3 1/2 exp 3" 3 1/2 exp 3"	3 1/2 exp 3" 3 1/2 exp 3"	3 1/2 exp 3" 3 1/2 exp 3"
" Brackets at intermdt. frmg., wdth & thkns 45	45	45	45	Second Deck Stringer Plate, br'dth & thickness 51 .52 51 .52	51 .52 51 .52	51 .52 51 .52	51 .52 51 .52
" Height of Outside Brackets above at bilge 59" & 54" where 3rd Dk.	59" & 54" where 3rd Dk.	59" & 54" where 3rd Dk.	59" & 54" where 3rd Dk.	" Angles on ditto, No. Two 1 - 3x3x.52 3x3x.52	1 - 3x3x.52 3x3x.52	1 - 3x3x.52 3x3x.52	1 - 3x3x.52 3x3x.52
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake 49 .58 49 .58	49 .58 49 .58	49 .58 49 .58	49 .58 49 .58	" Tie Plates outside Hatchways 1 - 4x4x.52 4x4x.52	1 - 4x4x.52 4x4x.52	1 - 4x4x.52 4x4x.52	1 - 4x4x.52 4x4x.52
" " in Engine and Boiler space 60ES .62BS 60ES .62BS	60ES .62BS 60ES .62BS	60ES .62BS 60ES .62BS	60ES .62BS 60ES .62BS	" Deck * Iron or Steel, for Whole lng. 36 in Brd 36 in Brd	36 in Brd 36 in Brd	36 in Brd 36 in Brd	36 in Brd 36 in Brd
" " Remainder in Holds .52 - .40 .52 - .40	.52 - .40 .52 - .40	.52 - .40 .52 - .40	.52 - .40 .52 - .40	" Wood Deck. Material & thickness 0. Pine 3" in accd 3" in accd	3" in accd 3" in accd	3" in accd 3" in accd	3" in accd 3" in accd
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel 10 3 1/2 .475 10 3 1/2 .48	10 3 1/2 .475 10 3 1/2 .48	10 3 1/2 .475 10 3 1/2 .48	10 3 1/2 .475 10 3 1/2 .48	Third Deck Stringer Plate, br'dth & thickness 51 x .46 51 x .46	51 x .46 51 x .46	51 x .46 51 x .46	51 x .46 51 x .46
" " In way of Long Bridge " " " " " "	" " " " " "	" " " " " "	" " " " " "	" Angles on ditto, No. Two 1 - 3x3x.52 3x3x.52	1 - 3x3x.52 3x3x.52	1 - 3x3x.52 3x3x.52	1 - 3x3x.52 3x3x.52
" Spacing 36 36	36 36	36 36	36 36	" Tie Plates, outside Hatchways 1 - 4x4x.52 4x4x.52	1 - 4x4x.52 4x4x.52	1 - 4x4x.52 4x4x.52	1 - 4x4x.52 4x4x.52
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel 10x3 1/2 x 3 1/2 .475 10x3 1/2 x 3 1/2 .46	10x3 1/2 x 3 1/2 .475 10x3 1/2 x 3 1/2 .46	10x3 1/2 x 3 1/2 .475 10x3 1/2 x 3 1/2 .46	10x3 1/2 x 3 1/2 .475 10x3 1/2 x 3 1/2 .46	" Deck * Material and thickness Part Stl Dk .32 .32	Part Stl Dk .32 .32	Part Stl Dk .32 .32	Part Stl Dk .32 .32
" " Spacing 36 36	36 36	36 36	36 36	Fourth and Fifth Deck Stringer Plate, breadth & thickness / /	/ /	/ /	/ /
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel 10x3 1/2 x 3 1/2 .50 10x3 1/2 x 3 1/2 .46	10x3 1/2 x 3 1/2 .50 10x3 1/2 x 3 1/2 .46	10x3 1/2 x 3 1/2 .50 10x3 1/2 x 3 1/2 .46	10x3 1/2 x 3 1/2 .50 10x3 1/2 x 3 1/2 .46	" " Angles on ditto, No. / /	/ /	/ /	/ /
" " Angles on upper edge 12x3 .45x3.45 11x3 1/2 x 3 1/2 .50	12x3 .45x3.45 11x3 1/2 x 3 1/2 .50	12x3 .45x3.45 11x3 1/2 x 3 1/2 .50	12x3 .45x3.45 11x3 1/2 x 3 1/2 .50	" " Tie Plates outside Hatchways / /	/ /	/ /	/ /
" " Spacing 36 36	36 36	36 36	36 36	" " Deck. Material & thickness / /	/ /	/ /	/ /
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel 9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	Poop Deck Stringer Plate, breadth & thickness 39 .38 39 .38	39 .38 39 .38	39 .38 39 .38	39 .38 39 .38
" " Angles on upper edge 9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	" Angle on ditto 3 1/2 x 3 1/2 .38 3 1/2 x 3 1/2 .38	3 1/2 x 3 1/2 .38 3 1/2 x 3 1/2 .38	3 1/2 x 3 1/2 .38 3 1/2 x 3 1/2 .38	3 1/2 x 3 1/2 .38 3 1/2 x 3 1/2 .38
" " Spacing 36 & 48 36 & 48	36 & 48 36 & 48	36 & 48 36 & 48	36 & 48 36 & 48	" Tie Plates / /	/ /	/ /	/ /
BEAMS, Bridge Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel 10 3 1/2 .475 10 3 1/2 .48	10 3 1/2 .475 10 3 1/2 .48	10 3 1/2 .475 10 3 1/2 .48	10 3 1/2 .475 10 3 1/2 .48	" Deck. Material and thickness Stl & W.S. 3" O.P. .30 3" O.P. .30	3" O.P. .30 3" O.P. .30	3" O.P. .30 3" O.P. .30	3" O.P. .30 3" O.P. .30
" " Angles on upper edge / /	/ /	/ /	/ /	Bridge Deck Stringer Plate, br'dth & thickness 66 .60 66 .60	66 .60 66 .60	66 .60 66 .60	66 .60 66 .60
" " Spacing 36 36	36 36	36 36	36 36	" Angle on ditto 5x5x.68 5x5x.68	5x5x.68 5x5x.68	5x5x.68 5x5x.68	5x5x.68 5x5x.68
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel 9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	9x3 1/2 x 3 1/2 .55 9x3 1/2 x 3 1/2 .48	" Tie Plates / /	/ /	/ /	/ /
" " Angles on upper edge / /	/ /	/ /	/ /	" Deck. Material and thickness Stl & W.S. 3" O.P. .52 3" O.P. .52	3" O.P. .52 3" O.P. .52	3" O.P. .52 3" O.P. .52	3" O.P. .52 3" O.P. .52
" " Spacing 48 & 54 48 & 54	48 & 54 48 & 54	48 & 54 48 & 54	48 & 54 48 & 54	Forecastle Deck Stringer Plate, br'dth & th'kns 39 .38 39 .38	39 .38 39 .38	39 .38 39 .38	39 .38 39 .38
				" Angle on ditto 3 1/2 x 3 1/2 .38 3 1/2 x 3 1/2 .38	3 1/2 x 3 1/2 .38 3 1/2 x 3 1/2 .38	3 1/2 x 3 1/2 .38 3 1/2 x 3 1/2 .38	3 1/2 x 3 1/2 .38 3 1/2 x 3 1/2 .38
				" Tie Plates / /	/ /	/ /	/ /
				" Deck. Material and thickness Stl & W.S. 3" O.P. .30 3" O.P. .30	3" O.P. .30 3" O.P. .30	3" O.P. .30 3" O.P. .30	3" O.P. .30 3" O.P. .30

* 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. W.T. BULKHEADS. COLLISION PARTITION LONGITUDINAL. PLATING. STRAKES. THICKNESS OF STRAKES. POOP SIDES. SHORT BRIDGE SIDES. FORECASTLE SIDES. UPPER DECK. STRINGER PLATE. SECOND DECK. STRINGER PLATE. BRIDGE DECK STRINGER PLATE. FRAMES. REVERSED FRAMES. MASTS, SPARS, &c. LOWER MASTS. BOWSPRIT. TOPMASTS, YARDS AND REMAINDER OF SPARS. RIGGING, MATERIAL AND SIZE, SHROUDS. SAILS.

EQUIPMENT No. 53061. LETTER F. ANCHORS. TONNAGE U.D.K. OR PLATING No. FOR TRAWLERS. CHAIN CABLES. HAWSERS AND WARPS. Boats. Pumps. Windlass. Engine Room Skylights. Coal Bunker Openings. Number of Scuppers. Ceiling in Holds. Cargo Hatchways. State size No. 1 Hatch. Number of Web Plates. Bulwarks. The foregoing is a correct description. Builder's Signature. Correspondence. Workmanship. Is the riveted work properly closed? Are the liners between the frames and plates solid single pieces? Are the rivet holes well and sufficiently countersunk in the plate and punched 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. This vessel has been built in accordance with the approved plans and in conformity with the Rules for the Class contemplated. Plans sent under separate cover of Section, Profile and Decks, W. T. Bulkheads, Rudder Stern frame and Shaft Brackets, also certificates of Castings and Forgings. Nos. 2, 3, 6 & 7 double bottom tanks are intended to occasionally carry bean oil cargo and were tested by a head of water to the height of Upper Deck. The ceiling in way of these tanks has been laid as required by Section 49 of the Rules. Sister Vessels :- Hakone Maru, Report No.1341, and Haruna Maru, Report No.1352, Nagasaki. 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.

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 93.8 ft., R.Q.D. / ft., Bridge 186.0 ft., Forecastle 55.5 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 a should appear in the Register Book) 2 dks (Stl-Uws) & 3rd dk (Stl) in Nos. 1, 3 & 4 holds—Electric light and Wireless
 Official No. ; Signal Letters State if Machinery is fitted aft No.
 How are the surfaces preserved from oxidation? Inside Paint and Cement. Outside Paint.

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 Cap. Tons.
Double bottom, aft,	<u>147.0</u>	<u>545.19</u>	Fore peak tank,	<u>26</u>	<u>168.</u>
Double bottom, under Engines and Boilers,	<u>90.0</u>	<u>528.50</u>	After peak tank,	<u>/</u>	<u>/</u>
Double bottom, if under Engines only,	<u>/</u>	<u>/</u>	Deep tank, aft,	<u>/</u>	<u>/</u>
Double bottom, if under Boilers only,	<u>/</u>	<u>/</u>	Deep tank, forward,	<u>/</u>	<u>/</u>
Double bottom, forward,	<u>178.5</u>	<u>787.98</u>	Other tanks, if fitted, <u>Two F.W. Tanks in E.R.</u>	<u>6.0</u>	<u>90.</u>
	Total capacity of double bottom	<u>1861.67</u>	(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. 70.
 Date 30th July 1920
 No. 3 4 8. in builder's yard.
 DATES of Surveys held while building
1920. Sept. 3, Dec. 28. 1921. Jan. 11, June 22, 28, Sept. 8, 16, 22, Oct. 10, 21. Nov. 16, 18, 25, Dec. 5, 10, 12, 13, 15, 16, 19, 21, 22, 24, 27, 29, 1922. Jan. 13, 17, 20, 25, 30, 31, Feb. 1, 7, 10, 16, 20, 22, 25, 27, 28. Mar. 2, 6, 9, 10, 14, 17, 22, 27, Apr. 5, 17, 18, 20, May 4, 6, 8, 18, 24, 30, June 1, 2, 7.

Surveyor's Signature

B. Crawford

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