

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office NOV. 27 1923

Date of completion of report 16th October, 1923. Port of NAGASAKI. No. 1419.
Survey held at NAGASAKI. Date, First Survey 4th March, 1922. Last Survey 28th September, 1923.

On the Steel Twin Screw Steamer "HAKUSAN MARU", Rig Schooner.
Tonnage under 8390.07
Do. between Tonnage Dk. and 3rd and 4th Dk. 362.56
Total under Upper Dk. 8390.07
Do. of Poop 591.65
Do. of R.Q.Dk. 75.42
Do. of Bridge House 943.71
Do. of Houses on Dk. 17.03
Do. of excess of Hatchways
Do. above Crown of Engine Room 10380.44
Gross Tonnage 602.69
Less Crew Space 9777.75
Less above Crown of Engine Room 3321.74
Less Navigation Spaces 109.38
Less Peak tanks. 75.94
Register Tonnage 6270.69
CLASS *100AI, Contemplated.
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 23.0
Proportions—Length 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
Master T. Kusano.
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 1923.1 Launched 19th May 1923
By whom built Mitsubishi Zosen Kaisha, Ltd.,
Owners Nippon Yusen Kabushiki Kaisha.
Managers /
(Where necessary to be entered in Reg. Book.)
Residence Tokio, Japan.
Port belonging to Tokio, Japan.
Destined Voyage United Kingdom. If Surveyed while Building, Afloat, or in Dry Dock While Building.

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 3/4 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.
FRAME, Angles, or Bars amidships 12x3/4x3/4x.60	12x3/4x3/4x.56	12x3/4x3/4x.56	12x3/4x3/4x.56	PILLARS In 'tween Deck, size and spacing			
Do. in peaks B.A. 9 3/4 .475 9 3/4 .44	9 3/4 .475 9 3/4 .44	9 3/4 .475 9 3/4 .44	9 3/4 .475 9 3/4 .44	" " Hold " "			
Do. 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	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. " "			
" " at intermdt. Bkts. 9 3 1/2 .475 9 3 1/2 .46	9 3 1/2 .475 9 3 1/2 .46	9 3 1/2 .475 9 3 1/2 .46	9 3 1/2 .475 9 3 1/2 .46	BA. " " in Hold " "			
Spacing of Frames from centre to centre amidships 36 36	36 36	36 36	36 36	KEELSONS & STRINGERS.			
" " length to Collision bulkhead 27 27	27 27	27 27	27 27	CENTRE LINE KEELSON, Vertical Plate above Rider Plate			
" " in peaks 24 24	24 24	24 24	24 24	Flat Plate Keel Angles			
REVERSED 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	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	Horizontal Plates on Floors			
Do. 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	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	Angles or Bulb Angles			
" " at intermdt. Bkts. 8 3 1/2 .45 8 3 1/2 .46	8 3 1/2 .45 8 3 1/2 .46	8 3 1/2 .45 8 3 1/2 .46	8 3 1/2 .45 8 3 1/2 .46	SIDE KEELSONS, Number			
FRAMING, depth of girder 12 12	12 12	12 12	12 12	" Angles or Bulb Angles			
FLOORS, 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			
FLOORS in Cell. Double Bottoms 49x.46 .54BS 49x.46 .54BS	49x.46 .54BS 49x.46 .54BS	49x.46 .54BS 49x.46 .54BS	49x.46 .54BS 49x.46 .54BS	" Attached to outside Plating with Angle			
" state if flanged (top & bottom) Yes, BS & Ford. of 5 L&B	Yes, BS & Ford. of 5 L&B	Yes, BS & Ford. of 5 L&B	Yes, BS & Ford. of 5 L&B	SIDE STRINGERS, Number Two			
" Spacing of Solid floors 72 72	72 72	72 72	72 72	PAINTING Face Angle			
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss. 49 49 .62 49 .62	49 49 .62 49 .62	49 49 .62 49 .62	49 49 .62 49 .62	" Intercoastal Plate, for W length			
" Angles, Top Single 5 5 5/8 5 5 .62	5 5 5/8 5 5 .62	5 5 5/8 5 5 .62	5 5 5/8 5 5 .62	" Attached to outside plating with Angle			
" " Bottom Double 5 5 5/8 5 5 .62	5 5 5/8 5 5 .62	5 5 5/8 5 5 .62	5 5 5/8 5 5 .62	Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	2-50"x25/32 Two 50"x.78		
" " to Floors Single 6 6 .56 6 6 .56	6 6 .56 6 6 .56	6 6 .56 6 6 .56	6 6 .56 6 6 .56	" " " " br'dth & thickness (in way of Bridge)	2-50"x17/32 2 50"x.52		
" Brackets at intermdt. frmg., wdth & thknss 42 42 .50 42 .50	42 42 .50 42 .50	42 42 .50 42 .50	42 42 .50 42 .50	" " " " Angle (clear of Bridge)	6"x6" .75" 6 x 6x.76		
SIDE GIRDERS, number on each side & thickness Two .46 Two .46	Two .46 Two .46	Two .46 Two .46	Two .46 Two .46	" " Tie Plate at sides of Hatchways	Double at bridge ends		
" state if flanged (top and bottom) Yes	Yes	Yes	Yes	" Deck * Iron or Steel, for Whole lng.	19/32" 3/8" .60 - .36		
" Angles (top and 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	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	" " Thickness (clear of Bridge)	17/32" 3/8" .46		
" " 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.	" " (in way of Bridge)	17/32" 3/8" .46		
MARGIN PLATE, depth (exclusive of flange) 48 48 .58 48 .58	48 48 .58 48 .58	48 48 .58 48 .58	48 48 .58 48 .58	" Wood Deck. Material & thickness 0. Pine 3 1/2" & 3" exp. 3"	3 1/2" & 3" exp. 3"		
" Angle to Outside Plating 4 4 .54 4 4 .54	4 4 .54 4 4 .54	4 4 .54 4 4 .54	4 4 .54 4 4 .54	Second Deck Stringer Plate, br'dth & thickness 51" 17/32 51 .52	51" 17/32 51 .52		
" " 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	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	" Angles on ditto, No. Two 3"x3"x.50 3x3x.52	3"x3"x.50 3x3x.52		
" Brackets at intermdt. frmg., wdth & thknss 45 45 .50 45 .50	45 45 .50 45 .50	45 45 .50 45 .50	45 45 .50 45 .50	" Tie Plates outside Hatchways 4"x4"x.50 4x4x.52	4"x4"x.50 4x4x.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.	" Deck * Iron or Steel, for Whole lng. 13/32" 5/16" 36 in Brd	13/32" 5/16" 36 in Brd		
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake 49 49 .58 49 .58	49 49 .58 49 .58	49 49 .58 49 .58	49 49 .58 49 .58	" Wood Deck. Material & thickness 0. Pine 3" in accom 3" in acc.	3" in accom 3" in acc.		
" " in Engine and Boiler space 60ES .62BS 60ES .62BS	60ES .62BS 60ES .62BS	60ES .62BS 60ES .62BS	60ES .62BS 60ES .62BS	Third Deck Stringer Plate, br'dth & thickness 51"x15/32 51 x.46	51"x15/32 51 x.46		
" " Remainder in Holds .52 - .40 .52 - .40	.52 - .40 .52 - .40	.52 - .40 .52 - .40	.52 - .40 .52 - .40	" Angles on ditto, No. Two 3"x3"x.50 3x3x.52	3"x3"x.50 3x3x.52		
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel 10x3 1/2 x3 1/2 .40 10 3 1/2 .48BA	10x3 1/2 x3 1/2 .40 10 3 1/2 .48BA	10x3 1/2 x3 1/2 .40 10 3 1/2 .48BA	10x3 1/2 x3 1/2 .40 10 3 1/2 .48BA	" Tie Plates, outside Hatchways 4"x4"x.50 4x4x.52	4"x4"x.50 4x4x.52		
" In way of Long Bridge 36 36	36 36	36 36	36 36	" Deck * Material and thickness Part Stl Dk. 5/16 .32	Part Stl Dk. 5/16 .32		
" Spacing 10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	Fourth and Fifth Deck Stringer Plate, breadth & thickness			
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel 10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	" Angles on ditto, No.			
" Spacing 10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	10x3 1/2 x3 1/2 .475 10x3 1/2 x3 1/2 .46	" Tie Plates outside Hatchways			
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel 12x3 1/2 x3 1/2 .45 11x3 1/2 x3 1/2 .50	12x3 1/2 x3 1/2 .45 11x3 1/2 x3 1/2 .50	12x3 1/2 x3 1/2 .45 11x3 1/2 x3 1/2 .50	12x3 1/2 x3 1/2 .45 11x3 1/2 x3 1/2 .50	" Deck. Material & thickness	39" 3/8" 39 .38		
" Angles on upper edge 36 36	36 36	36 36	36 36	POOP DECK Stringer Plate, breadth & thickness 3 1/2 x3 1/2 3/8" 3 1/2 x3 1/2 .38	3 1/2 x3 1/2 3/8" 3 1/2 x3 1/2 .38		
" Spacing 9x3 1/2 x.475 9 3 1/2 .44	9x3 1/2 x.475 9 3 1/2 .44	9x3 1/2 x.475 9 3 1/2 .44	9x3 1/2 x.475 9 3 1/2 .44	" Tie Plates	3" O.P. 5/16 3" O.P. .30		
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel 9x3 1/2 x3 1/2 .55 9x3 1/2 x3 1/2 .48	9x3 1/2 x3 1/2 .55 9x3 1/2 x3 1/2 .48	9x3 1/2 x3 1/2 .55 9x3 1/2 x3 1/2 .48	9x3 1/2 x3 1/2 .55 9x3 1/2 x3 1/2 .48	" Deck. Material and thickness Stl & WS 3" O.P. 5/16 3" O.P. .52	3" O.P. 5/16 3" O.P. .52		
" Angles on upper edge 36 36	36 36	36 36	36 36	" Angle on ditto 39" 3/8" 39 .38	39" 3/8" 39 .38		
" Spacing 10"x3 1/2 .475 10 3 1/2 .48	10"x3 1/2 .475 10 3 1/2 .48	10"x3 1/2 .475 10 3 1/2 .48	10"x3 1/2 .475 10 3 1/2 .48	" Tie Plates	3 1/2" x3 1/2" 3/8" 3 1/2 x3 1/2 .38		
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel 8x3 1/2 x3 1/2 .525 36	8x3 1/2 x3 1/2 .525 36	8x3 1/2 x3 1/2 .525 36	8x3 1/2 x3 1/2 .525 36	" Deck. Material and thickness Stl & WS 3" O.P. 5/16 3" O.P. .30	3" O.P. 5/16 3" O.P. .30		
" Angles on upper edge 36 36	36 36	36 36	36 36	Forecastle Deck Stringer Plate, br'dth & th'kns 3 1/2" x3 1/2" 3/8" 3 1/2 x3 1/2 .38	3 1/2" x3 1/2" 3/8" 3 1/2 x3 1/2 .38		
" Spacing 9x3 1/2 x3 1/2 .55 9x3 1/2 x3 1/2 .48	9x3 1/2 x3 1/2 .55 9x3 1/2 x3 1/2 .48	9x3 1/2 x3 1/2 .55 9x3 1/2 x3 1/2 .48	9x3 1/2 x3 1/2 .55 9x3 1/2 x3 1/2 .48	" Angle on ditto			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel 48" & 54" 48 & 54	48" & 54" 48 & 54	48" & 54" 48 & 54	48" & 54" 48 & 54	" Tie Plates			
" Angles on upper edge				" Deck. Material and thickness Stl & WS 3" O.P. 5/16 3" O.P. .30	3" O.P. 5/16 3" O.P. .30		
" Spacing							

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

WEB FRAMES.

	Inches in Ship.	Inches per Rule.	Inches per Rule.	Inches per Rule.
WEB-FRAMES, In Fore Body, No. and spacing	Two 9'-0"	Two 9'-0"		
" " " brdth. & thickness	30 x 50	30 x 50		
" " " No. of Side Stringers "	2-30x13/32	2-30x.42		
WEB-FRAMES, In E. & B. Space, No. & spacing	E.S. B.S.	E.S. B.S.		
" " " brdth. & thickness	30 x 50	30 x 50		
WEB-FRAMES, In After Body, No. and spacing	3inAft.Hold	3inAft.Peark.		
" " " brdth. & thickness	26x15/32	18x7/16		
" " " No. of Side Stringers "	2 in Aft.Peark	1 in Tw Dks.		
" " " Size of Face Angles to Web-Frames	9x3px.625 BA	8x3px.50		
BRACKET PLATES to Stringers between Web Frames, depth and thickness.....	7x3px.69 A	7x3px.68		
	30 x .50	30 x .50		

BULKHEADS.

	Number.	Thickness.	STIFFENERS.				Single or Double Frames.	Height up state deck.
			Horizontal.		Vertical.			
Vessel.	Per Rule.	Inches.	Size.	Spacing.	Size.	Spacing.		
W.T.BULKHEADS	No. 9	.54	30	1/2	30	1/2	2nd	
" 29	7/16	.28	30	1/2	30	1/2	Upper	
" 39	40	.30	30	1/2	30	1/2	3rd	
" 46	7/16	.32	30	1/2	30	1/2	Upper	
" 65	"	"	30	1/2	30	1/2	"	
" 76	.50	.9/32	30	1/2	30	1/2	"	
" 97	.50	.5/16	30	1/2	30	1/2	"	
" 118	7/16	.9/32	30	1/2	30	1/2	"	
" 137	15/32	.9/32	30	1/2	30	1/2	"	
" 166	.54	.28	30	1/2	30	1/2	"	

Are the outside Plates doubled two spaces of Frames in length? **No. Brackets fitted.**

Are the Sluice Valves and Watertight Doors in efficient working order? **Yes.**

FORGINGS or CASTINGS.

	Inches in Ship.	Inches per Rule.	Inches per Rule.
KEEL, Bar, depth and thickness	Flat Plate.		
STEM, moulding and thickness	Rolled Stl	11"x3 1/2"	11"x3 1/2"
STERN-POST for Rudder do. do.	Cast Stl	10"x4"	10"x4"
for Propeller	Cast Stl	Shaft Brackets fitte	
RUDDER—AxD* Table 22. Speed	14 knots	954.44	954.44
Main-Piece, diameter at head	13 1/2"		13 1/2"
" " " at heel	10 1/2"		10 1/2"

RUDDER, how constructed Forged Steel Main piece & Stock Cast Stl Arms.Single plate type.

Thickness of Plates or Single Plate **1 5/32" single.**

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.? **William Beardmore&Co.,Ltd. James Dunlop&Co.,Ltd., Carnegie Steel Co. Imperial Steel Works, Japan & Illinois Stl Co. Open Hearth Steel.**

Has the Steel been tested as required by the Rules? **Yes.**

PLATING.

STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.				BUTTS.						
	AMIDSHIP.		FORWARD.		AFT.		Ordinary or joggled?		RIVETS.		Double or Treble and for what Length.		STRAPS.		IF LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Single or Double.	Breadth of Lap.	Diam.	Spacing cr. to cr.	Diam.	Spacing cr. to cr.	Breadth.	Thick-	Breadth.	For what Length.	
FLAT PLATE KEEL.....	51	.84	.84	.84	51	.84	Double	6	1	3 5/8	4R ends	1	4	19	.84	14	ends.
GARBOARD or A Strake	72	"	.76	.60	72	"	"	"	"	"	4R	"	"	-	-	"	W
B "	"	"	"	"	"	"	"	"	"	"	"	"	"	-	-	"	"
C "	"	"	"	"	"	"	"	"	"	"	"	"	"	-	-	"	"
D "	72	"	.54	"	"	"	"	"	"	"	"	"	"	-	-	"	"
E "	65	"	"	"	65	"	"	"	"	"	"	"	"	-	-	"	"
F "	60	"	"	"	60	"	"	"	"	"	"	"	"	-	-	"	"
G "	72	13/16	.50	9/16	72	.82	"	"	"	"	"	"	"	-	-	"	"
H "	"	"	"	"	"	"	"	"	"	"	"	"	"	-	-	"	"
J "	"	"	"	.50	"	"	"	"	"	"	"	"	"	-	-	"	"
K "	"	"	"	"	"	"	"	"	"	"	"	"	"	-	-	"	"
L "	68	13/16	.50	9/16	68	.82	Double	6	1	3 5/8	4R	1	4	-	-	14	W
M "	71	"	"	.50	71	.80	"	"	"	"	"	"	"	-	-	"	"
N "	51	7/8	"	"	51	"	"	"	"	"	"	"	"	-	-	"	"
O "	"	31/32	"	"	"	"	"	"	"	"	"	"	"	-	-	"	"
P "	64 1/2	3/4	13/16</														

EQUIPMENT No. 53061				LETTER f4				ANCHORS.				TONNAGE U.DK. OR PLATING No. FOR TRAWLERS				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 31.			Description of Anchor	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.			
86137	1st Bower ...	97	2	7	Stockless	66	10	0	0	85	3	9	5	Hall's type.	N.Hingley.	Northerton. 22-12-22. H.G.
86138	2nd „ ...	97	1	0	“	66	10	0	0	“	“	“	“	“	“	“
86136	3rd „ ...	97	0	21	“	66	10	0	0	“	“	“	“	“	“	“
	4th „ ...															
	Collective weight.	292	0	0						257	2	0				
86139	Stream	26	2	0	6	2	17	26	0	0	0	26	2	0	Ordinary.	“
	Kedge.....															

It Patent state Name of Patentee

For Stockless state Mechanical Tests.

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

1st Bower 58. 1. 0/ H.C.L. No.791. 7-12-22.
2nd „ 57. 0. 14/ „ No.790. 12-12-22.
3rd „ 57. 3. 7/ W.A.D. No.772. 26-10-22.
4th „

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.	WEIGHT OF CHAIN CABLE.		Length 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.	Length and Size per Table 31.	
	Length.	Diam.		Supplied.	Per Rule.						Length.	Cir.		Length.	Cir.
69985	150	2 3/8	1204	169	519	220	300 2 5/8	S.L. N.Hingley	Northerton. 11-5-22.H.G.	TOWLINE FSW	130	5 1/2	88.0	130	5 1/2
76000	150	„	„	„	„	„	„	„	18-5-22.H.G.	HAWSERS&WARPS	2-100	8	„	2-100	8
						1040-0-0									
Iron Stream Chain or Steel Wire	130	5 1/2	„	96.7	„	„		F.S.W.Yokohama	Maker's		2-100	8	„	2-100	8
	120	5	„	81.8	„	„		Rope Works.	Certificate						

Boats 10 - Lifeboats, 26 ft. 1 - Jolly. **Steering Gear, Steam** 2 sets **Hastie Steering Gear, Hand** None
Pumps, Number 1 - Motor emergency bilge pump & 3 Hand. Diameter of Barrel 5 1/2" & 4" State whether they are in efficient working order **Yes.**
Windlass is 14"x14" Napier Vertical type steam. **Capstan** 4 sets 13"x10 1/2" steam. Mitsubishi, Kobe.
Engine Room Skylights.—How constructed? **Stl & strong W falps.** What arrangements for deadlights in bad weather? **Clumps.**
Coal Bunker Openings.—How constructed? **Plates & angles** How are lids secured? **Battens & Cleats** Height above deck? **30" above Br.Dk.**
Number of **Scuppers**, and numbers and dimensions of **Freeing Ports, &c.** 4 Ford. 6 Aft. 3-4'-4"x18" ford. 1- 24"x18"& 2- 4'-4"x
Ceiling in Holds, thickness and material 2 1/2" Pine. **Cargo Battens**, thickness and material 2" Pine. 18"Aft.P&S.
Cargo Hatchways.—How formed? **Plates and Angles and Wood Covers** **Hatches**, If strong and efficient? **Yes.**
State size **No. 1 Hatch** (Forward) 20 -3"x18'-0" **No. 2 Hatch** 30'-0"x20'-0" **No. 3 Hatch** 12'-0"x16'-0" **No. 4 Hatch** 15'-0"x20'-0"
Number of **Web Plates, Shifting Beams** and **Fore and Afters** to each Hatch **Nos.1 & 6 = 3, No.2 = 5, Nos.3 & 4 = 2, No.5 = 4,**
No.5 H. 24'-0"x20'-0", **No.6 H.** 18'-0"x20'-0". **No. of Breasthooks** 4 **No. of Crutches** Deep Floors.
Bulwarks, height above deck and description 4'-3"Stl Pl. 6"x.36 bulb Pl. Main Rail, material and size 6"x 3 1/2"x.35 Bulb Angles.
The foregoing is a correct description **NAGASAKI WORKS, MITSUBISHI ZOSEN KAISHA, LTD.** **stays.**
Builder's Signature (here only) *[Signature]* Surveyor's Signature *a.s. Williamson*
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. 1920.**
March 13, 24, 31, April 13, May 8, June 4, 25, 30, Aug. 6, Sept. 13, 24, Oct. 7, M1921: June 3.
Workmanship. Are the butts of plating planed or otherwise fitted? **Planed.** **M. 1922. March 27, April 29.**
Is the riveted work properly closed? **Yes.**
Are the liners between the frames and plates solid single pieces? **Joggled frames.** 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? **A few.**
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 **Satisfactory.**
General Remarks (State quality of workmanship, &c.) **The Workmanship and Materials are good.**

The 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 & Decks, W.T.Bulkheads, Deep Cargo Oil Tank and Deep Tank Piping Plan, Rudder, Sternframe and Shaft Brackets also certificates of castings and forgings.
Nos.2, 3 & 7 double bottom tanks and the deep cargo oil tank are intended to occasionally carry bean oil cargo and were tested by a head of water to the height of the 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, "Haruna Maru" Report No.1352, "Hakozaki Maru" Report No.1364. Nagasaki.

The Surveyor should state the Number of Report and Name of any Sister Vessel.
Hubbard Lee 225 ft. *as built*
The amount of Entry Fee £ 120:00 11. 10. 19 23
Special Survey Fee.... £ 6666:65 Received by me, *a.s. W. Inch*
Travelling Expenses, if any £ : : 15. 10. 19 23
State whether the Vessel has been built under Special Survey **Yes.**
I am of opinion this Vessel should be Classed **+100AI.**
With, or without Freeboard, as condition of Class **Without.**
a.s. Williamson
Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 30 NOV. 1923**
Character assigned **100AI**
Lloyd as b.O.
+Lmb. 923
72. 2R © 2021
Lloyd's Register Foundation
009021-009029-0069 3/2

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 93.8 ft., R.Q.D. / ft., Bridge 186.0, Forecastle 55.5
(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-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 Capacity. Tons.
Double bottom, aft,	<u>147'-0"</u>	<u>519.37</u>	Fore peak tank,	<u>26'-11"</u>	<u>163</u>
Double bottom, under Engines and Boilers,	<u>90'-0"</u>	<u>528.50</u>	After peak tank,	<u>18'-0"</u>	<u>107</u>
Double bottom, if under Engines only,			Deep tank, aft,	<u>21'-0"</u>	<u>513</u>
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	<u>178'-6"</u>	<u>791.54</u>	Other tanks, if fitted, <u>2 in No. F.W. tank abaft</u>	<u>6'-0"</u>	<u>90</u>
	Total capacity of double bottom	<u>1839.41</u>	(If necessary, furnish further information by sketch.) <u>E.Rm.</u>		
* 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 <u>Yes.</u>		

Order for Special Survey No. 71.

Date 28th March '22.

No. 383, in builder's yard.

DATES of Surveys held while building

1922. Mar. 4, 13, 20, 28, May 9, 20, 26, June 5, 19, July, 22, 25, 29, Aug. 3, 26, 28, Sept. 4, 19, 30, Oct. 12, 18, 27, Nov. 3, 6, 13, 15, 21, 24, 29, Dec. 2, 4, 12, 14, 15, 19, 22.
1923. Jan. 8, 13, 22, 24, Feb. 6, 9, 12, 14, 15, 16, 17, 22, 23, 26, 28, Mar. 3, 6, 10, 14, 16, Aug. 16, 22, 23, 25, Sept. 1, 5, 11, 13, 24, 27, 28.

Total No. of Visits 8

Surveyor's Signature

A. S. Williamson

Lloyd's Register Foundation