

# With or Without Disconnected Erections.

# STEEL STEAMER.

Received at London Office 1913

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

Date of completion of report 20 Sept 1913

Port of **NAGASAKI.**

No. **847**

Survey held at **NAGASAKI.**

Date, First Survey *Apr. 9, 1912.*

Last Survey 20 Sept 1913

1913

On the **S. S. KATORI MARU**

Rig *Schooner*

TONNAGE under Tonnage Deck...

CLASS **100A1**

Master **J. Murai**

Year of appointment

(1) As Master in service of 1894  
(2) As Master of this vessel 1913

Built at **Nagasaki**

When built 1913 Launched 30 March 1913

By whom built **British & Irish Dockyard & Eng. Co.**

Owners **Nippon Yusen Kaisha.**

Managers " " "

Residence **Yokohama**

Port belonging to **Yokohama**

Do. between Tonnage Dk. and 3rd and 4th Dk. *yes*  
Total under Upper Dk. **8173.22**  
Do. of Poop **399.50**  
Do. of R. Dk. **714.70**  
Do. of Bridge House **102.66**  
Do. of Houses on Dk. **1136.37**  
Do. of excess of Hatchways **1136.37**  
Do. above Crown of Room **10526.45**  
age **631.59**  
FEES **9894.86**  
Room **3368.46**  
ion Spaces **6526.40**

Breadth (greatest moulded) **61.00**  
Depth, at middle of length from top of keel to top of upper deck beams at side **36.50**  
Transverse Number **97.50**  
Length on deck from fore part of stem to after part of stern post **490.0**  
Longitudinal Number **47775.0**  
Depth "d," at middle of length (See Secs. 2 & 13) **22.707**  
Proportions—Depth to Length—Upper Deck Beam at side to top of keel **13.42**  
" " Long Bridge Deck Beam at side to top of keel **10.99**

Destined Voyage **London**

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

On Deck Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid	No. of Tiers of Beams
490	0		61	0		33	9 1/2		2	11
						24	0 1/4			2

(Japanese measurements—shaku)  
Length 499.8 breadth 59.9 depth 33.9 Moulded depth, ft. 44 ins. 7 To Bridge Dk. Round of Upper Dk. Beam, Actual 15 1/4 ins.

FRAMING.						FORGINGS or CASTINGS.					
	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.		Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.
E, Angles, or <del>Flat</del> Bars amidships <b>8 1/2</b>	3 1/2	50	8 1/2	3 1/2	50	KEEL, Bar, depth and thickness	Plate	Plate			
in peaks <b>7</b>	3 1/2	42	7	3 1/2	42	STEM, moulding and thickness	11 x 3 1/2	11 x 3 1/2			
in way of Double Bottoms at Solid Floors	3 1/2	48	3 1/2	3 1/2	48	STERN-POST for Rudder do. do.	9 1/2 x 9 1/2	9 1/2 x 9 1/2			
" " at intermdt. Bkts.	2 1/2	27	2 1/2	2 1/2	27	" " for Propeller	11 x 9 1/2	11 x 9 1/2			
of Frames from centre to centre amidships	2 1/2	27	2 1/2	2 1/2	27	RUDDER—A x D Table 22	14 1/2	14 1/2			
" " length to Collision bulkhead	2 1/2	27	2 1/2	2 1/2	27	" " Main-Piece, diameter at head	11	11			
" " in peaks	2 1/2	27	2 1/2	2 1/2	27	" " at heel	11	11			
BASED FRAME, Angles, in <b>11</b>	3 1/2	48	3 1/2	3 1/2	48	RUDDER, how constructed <i>Forging &amp; single plate 1.18</i>					
ING, depth of girder <b>11</b>	10 1/2	8 1/2	11	10 1/2	8 1/2	Can the Rudder be unshipped afloat? <i>yes</i>					
RS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	E 46	8.60	E 46	8.60							
in way of Engine and Boiler Spaces	E 46	8.60	E 46	8.60							
thickness at the ends of vessel	42	42	42	42							
depth at 1/2 the half breadth, as per Rule	42	42	42	42							
height extended at the Bilges	42	42	42	42							
RS & BRACKETS in Cell Dble Bottoms	48	46	48	46							
" " state if flanged (top & bottom)	40	40	40	40							
" " Spacing	28 1/2	28 1/2	28 1/2	28 1/2							
IRE GIRDER, in Dbl. bottom, dpth. & thickness	48	60	48	60							
" " Angles, Top	3 1/2	56	3 1/2	56							
" " Bottom	5	62	5	62							
" " to Floors	3 1/2	48	3 1/2	48							
E GIRDERS, number on each side & thickness	3	44	3	44							
" " state if flanged (top and bottom)	20	20	20	20							
" " Angles	3	46	3	46							
RGIN PLATE, depth (exclusive of flange) and thickness	40	52	40	52							
" " Angles to Outside Plating	4	52	4	52							
" " Floors	3 1/2	48	3 1/2	48							
" " Height of Brackets above at bilge	78	78	78	78							
VER BOTTOM PLATING, breadth and thickness of Middle Line Strake	48	56	48	56							
" " in Engine and Boiler space	E 54	8.66	E 54	8.66							
" " Remainder in Holds	44	44	44	44							
AMS, Upper Deck, Single Angle, Bulb	7 x 3 x 3	40	7 x 3 x 3	40							
" " Angle, Plate, Tee Bulb, or Channel	28 1/2	28 1/2	28 1/2	28 1/2							
" " Spacing	28 1/2	28 1/2	28 1/2	28 1/2							
EAMS, Second Deck, Single Angle, Bulb	8 x 3 1/2 x 3 1/2	44	8 x 3 1/2 x 3 1/2	44							
" " Angle, Plate, Tee Bulb, or Channel	28 1/2	28 1/2	28 1/2	28 1/2							
" " Spacing	28 1/2	28 1/2	28 1/2	28 1/2							
BEAMS, Third or Fourth Deck, Single Angle, Bulb	8 x 3 1/2 x 3 1/2	42	8 x 3 1/2 x 3 1/2	42							
" " Angle, Plate, Tee Bulb, or Channel	28 1/2	28 1/2	28 1/2	28 1/2							
" " Spacing	28 1/2	28 1/2	28 1/2	28 1/2							
BEAMS, Fourth or Fifth Deck, Plate, Tee Bulb, or Channel	7	3	7	3							
" " Angles on upper edge	28 1/2	28 1/2	28 1/2	28 1/2							
" " Spacing	28 1/2	28 1/2	28 1/2	28 1/2							
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8	3	8	3							
" " Angles on upper edge	28 1/2	28 1/2	28 1/2	28 1/2							
" " Spacing	28 1/2	28 1/2	28 1/2	28 1/2							
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8	3	8	3							
" " Angles on upper edge	28 1/2	28 1/2	28 1/2	28 1/2							
" " Spacing	28 1/2	28 1/2	28 1/2	28 1/2							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8	3	8	3							
" " Angles on upper edge	28 1/2	28 1/2	28 1/2	28 1/2							
" " Spacing	28 1/2	28 1/2	28 1/2	28 1/2							
PILLARS, In 'tween Deck, size and spacing	3" 57"	3" 57"	3" 57"	3" 57"							
" " Hold	various	various	various	various							
" " Quarter 'tween Dks., " "	various	various	various	various							
" " in Hold	various	various	various	various							
WEB-FRAMES, In Fore Body, No. and spacing	2	24	2	24							
" " No. of Side Stringers	2	24	2	24							
WEB-FRAMES, In E. & B. Space, No. & spacing	7	4-6	7	4-6							
" " No. of Side Stringers	1	31	1	31							
WEB-FRAMES, In After Body, No. and spacing	3	31	3	31							
" " No. of Side Stringers	2	31	2	31							
" " Size of Face Angles to Web-Frames	4	3 1/2	4	3 1/2							
BRACKET PLATES to Stringers between Web Frames, depth and thickness	21	42	21	42							

BULKHEADS.		STIFFENERS.		Single or Double Frames.		Height up.	
Vessel.	Per Rule.	Horizontal.	Vertical.	Size.	Spacing.	Size.	Spacing.
W. T. BULKHEADS	8	8	40	10	30	0	4.0k.
COLLISION	2	2	42	10	30	0	4.0k.
PARTITION	2	2	42	10	30	0	4.0k.
LONGITUDINAL	2	2	42	10	30	0	4.0k.

Are the outside Plates doubled two spaces of Frames in length? *brackets.*  
Are the Sluice Valves and Watertight Doors in efficient working order? *yes.*



PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.			BUTTS.									
	AMIDSHIP.		FORWARD.		AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAIPS.		IF LAPPED.			
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.			Diam.	Spacing or to cr.		Diam.	Spacing or to cr.	Breadth.	Thickness.	Breadth.	For what Length.		
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.		Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Feet.		
FLAT PLATE KEEL .....	✓ 51	✓ 1/4	✓ 1/4	✓ 1/4	51	1/4	90.	6	1	3 1/2	2. 1/2.	1	3 1/2	✓ 19	1/4	14	14		
(If Bar Keel, state Riveting.)																			
GABBOARD OF A Strake...	72	✓ 1/4	✓ 1/2	✓ 1/4	72	1/4	"	"	"	"	2. 1/2.	1	4			14	14		
B " "	72	✓ 1/4	✓ 1/2	✓ 1/4	72	1/4	"	"	"	"	"	1	"			"	"		
C " "	72	✓ 1/4	✓ 1/2	✓ 1/4	72	1/4	"	"	"	"	"	1	"			"	"		
D " "	72	✓ 1/4	✓ 1/2	✓ 1/4	72	1/4	"	"	"	"	"	1	"			"	"		
E " "	69	✓ 1/4	✓ 1/2	✓ 1/4	69	1/4	"	"	"	"	"	1	"			"	"		
F " "	54	✓ 1/4	✓ 1/2	✓ 1/4	54	1/4	80 & 90.	6 & 8 1/2	"	"	"	1	"			"	"		
G " "	57	✓ 1/2	✓ 1/2	✓ 1/4	57	1/2	" " "	"	"	"	"	1	"			"	"		
H " "	65	✓ 1/2	✓ 1/2	✓ 1/2	65	1/2	" " "	"	"	"	"	1	"			"	"		
J " "	65	✓ 1/2	✓ 1/2	✓ 1/2	65	1/2	90	6	"	"	"	1	"			"	"		
K " "																			
L " "	65	✓ 1/2	✓ 1/2	✓ 1/2	65	1/2	"	"	"	"	"	1	"			"	"		
M " "	65	✓ 1/2	✓ 1/2	✓ 1/2	65	1/2	"	"	"	"	"	1	"			"	"		
N " "	60	✓ 1/2	✓ 1/2	✓ 1/2	60	1/2	"	"	"	"	"	1	"			"	"		
O " "	60	✓ 1/2	✓ 1/2	✓ 1/2	60	1/2	"	"	"	"	"	1	"			"	"		
P " "	56 1/2	✓ 1/4	✓ 1/4	✓ 1/2	56 1/2	1/4	"	"	"	"	"	1	"			"	"		
Q " "	57	✓ 1/2	✓ 1/4	✓ 1/2	57	1/2					2. 1/2.	1	"	19 0 19	1/2	14	14		
R " "																			
S " "																			
DOUBLING OF Flat Plate Keel	3/4 in. 1/4						* Upper Deck Sheerstrake .90 clear of Bridge												
" Sheerstrakes	3 1/2 77 and 135 6 157 = 1"						Strake Below .82 " " "												
Length and thickness.	✓ 1/4																		
POOP SIDES .....	✓ 1/4																		
SHORT BRIDGE SIDES .....	1/2 1/4																		
FORECASTLE SIDES .....	1/4																		

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.? *Summers Marine.*

South Durham, Steel Co. of Scotland, Glasgow & S. C.

Lanarkshire, Pather, Palmer, Colville, Connell.

Cargo Fleet, Goddard, Dorman Long.

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

Upper Deck (Butts, riveted for 1/2 in. except under butts length amidship. Stringer Plate (Straps, single or overlapped for whole length amidship. Second Deck (Butts, riveted for whole length amidship. Stringer Plate (Straps, single or overlapped for whole length amidship. Butts of Side Stringers riveted. Tie Plates riveted. Inner Bottom Plating, riveting of Edges 0.5. Butts 0.5. Centre Girder Butts, riveted. Keelson Butts, riveted. Frames, riveted through Plates with 1 in. Rivets, about 6" apart. Rivets, state whether Iron or Steel *Steel.*

FRAMES extend in one length from keel to margin and to margin to gunwale. State if ordinary or joggled *ordinary*

REVERSED FRAMES on floors and frames extend from centre to margin & margin to 2" above deck. State if ordinary or joggled *ordinary*

MASTS, SPARS, &c.																
LOWER MASTS.....	Fore .....	Main .....	Mizen.....	Material.	Total Length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.			
						At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.		

EQUIPMENT No. 5184										ANCHORS.									
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.		Makers.		Where and when tested and Superintendent.		Description of Anchor.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Cwts.	qrs.		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Cwts.	qrs.	
68277	1st Bower	90	3	17	63	12	2	0	85	2	0	0	Halls C.S. Head.	Hingley & S. 2.	Hetherston	10/12/12	Sum		
68276	2nd "	90	2	21	"	"	"	"	85	2	0	0	"	"	"	"	"	"	"
68302	3rd "	90	2	6	"	"	"	"	73	2	0	0	"	"	"	"	"	"	"
	4th "																		
	Collective weight	272	0	76					244	2	0	0							
68278	Stream	25	0	3	6	1	17	24	17	0	21	25	0	0	Low stock	"	3/11/12	"	
68279	Kedge	12	2	10	3	0	18	14	8	1	21	12	0	0	"	"	3/11/12	"	

CHAIN CABLES.										HAWERS 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.	Cir.	Fathoms.	Ins.	Tons.	Fathoms.	Ins.	Tons.
50139	150	2 1/2	116	150	2 1/2	Hingley & S. 2.	Hetherston 10/12/12	Towline	130	6	150	6	150	6	150	6	150	6	150
50138	150	"	116	150	2 1/2	"	"	Hawser & Warps	200	3 1/2	150	3 1/2	150	3 1/2	150	3 1/2	150	3 1/2	150
	120	5 1/4	65	120	5 1/4	"	"	"	90	8	120	8	120	8	120	8	120	8	120

Boats 14 Steering Gear, Steam *Caldwells* Steering Gear, Hand *Minton Bishi*

Pumps, Number 1 *Downton* Diameter of Barrel 5 1/2 State whether they are in efficient working order *yes.*

Windlass is *Steam, Napier Brothers.* Capstan *Steam Napier Brothers*

Engine Room Skylights. How constructed? *Steel & hulls eyes.*

What arrangements for deadlights in bad weather? *Impounding*

Coal Bunker Openings. How constructed? *Hatch, scuttles, side ports* How are lids secured? *Secured* Height above deck? *Hatch 2-3, scuttles 4-5.*

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *Scuppers each side 3 each side 4-33 x 1-5*

Ceiling in Holds, thickness and material *2 1/2. O.P.* Cargo Battens, thickness and material *O.P. 2"*

Cargo Hatchways. How formed? *Steel coamings & solid covers* Hatches, If strong and efficient? *yes.*

State size No. 1 Hatch (Forward) *20-5 x 18* No. 2 Hatch *30-10 x 20* No. 3 Hatch *14-3 x 18 on A. B. H.* No. 4 Hatch *16-7 x 18*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *Nº 1 and 5 = 2 M. 3 F. A. Nº 3 and 4 = 1 web 3 F. A. Nº 2, 3 M. 5 F. A.*

No. of Breasthooks 9 No. of Crutches 4

Bulwarks, height above deck and description *Steel 3-9" Bull plate steps 7" x 4-6" Main Rail, material and size 7" Square section*

The above is a correct description *MITSU BISHI DOCKYARD & ENGINE WORKS.* Surveyor's Signature *E. D. Aitken* Surveyor to Lloyd's Register of British and Foreign Shipping.

Builder's Signature (here only) *Thos. Minton* General Manager.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case)

M. 12 Sept. 11. M. 3 Nov. 11. M. 8 Jan. 12. M. 10 Feb. 12. M. 3 Apr. 12.

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? *yes.* 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.*

*This vessel has been built in accordance with the approved plans and in conformity with the Rules for the Class contemplated.*

*Plans of Profile, Section & Longings, reports are sent under separate cover.*

The Surveyor should state the Number of Report and Name of any Sister Vessel. *none.*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 97 ft., R.Q.D. ft., Bridge 180 ft., Forecastle 54 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) *Steel Deck 2 x 20 (5 ft. 4 in.) deep framing. 3" x 4" in N° 1, 3 and 4 holds.*

Official No. *later*; Signal Letters *later* State if Machinery is fitted aft *no.*

How are the surfaces preserved from oxidation? *Inside Painted & Cement. Floors in boiler & bunker spaces Outside. Paint. Bit enamel. Tank top boiler space Bit enamel. Bunkers Bit enamel.*

PARTICULARS OF WATER BALLAST.										State whether the Double bottom is constructed on the cellular system or with girders on floors Cellular									
Where Fitted.	Length.	Water Capacity.	Feet.	Tons.	Where Fitted.	Length.	Feet.	Tons.	Water Capacity.	Feet.	Tons.	Where Fitted.	Length.	Feet.	Tons.	Water Capacity.	Feet.	Tons.	Water Capacity.
Double bottom, aft.	147	515			Fore peak tank,	26	152												
Double bottom, under Engines and Boilers.	93	520			After peak tank,	14	44												
Double bottom, if under Engines only,					Deep tank, aft.														
Double bottom, if under Boilers only,					Deep tank, forward.														
Double bottom, forward,	186	829			Other tanks, if fitted,														
					(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. *1912.*

Date *4 Nov. 1911.*

No. *230* in builder's yard.

DATES OF SURVEYS held while building

1912. Apr. 9-11-13-16-