

3 Decks.

## IRON OR STEEL STEAMER.

Received at London Office **HUR. 9 APR 1903**

Date of completion of report **5<sup>th</sup> March 1903** Port of **Nagasaki** No. **272**  
Survey held at **Nagasaki** Date, First Survey **2<sup>nd</sup> Jan'y 1902** Last Survey **3<sup>rd</sup> March 1903**  
On the **Steel Screw Steamer "Aki Maru"** Rig **Fore and aft 2 masts**

TONNAGE under

Tonnage Deck...

Do. between Tonnage Dk. and 3rd and 4th Dk.

Total under Upper Dk. **5373.87**Do. of Poop **169.03**Do. of Bridge House **350.90**Do. of Forecastle **103.01**Do. of Houses on Dk. **447.01**

Do. of excess of Hatchways

Do. above Crown of Engine Room ...

Gross Tonnage **6443.82**Less Crew Space **386.62**

Less above Crown of Engine Room ...

Tonnage for Fees... **6054.20**Less Engine Room **2062.02**

Less Navigation Spaces

Register Tonnage **3995.17**

Less out on Beam ...

THREE DECKED VESSEL.

CLASS **+ 100 A 1**

FEET.

Half Breadth (moulded) **24.58**Depth from upper part of Keel to top of Upper Deck Beams **34.52**

(with the normal round up of beam)

Girth of Half Midship Frame (as per Rule) **55.29****114.39**deduct 7 feet **7.00**1st Number **107.39**

Length on deck from after part of stem to fore part of

stern post **443.00**2nd Number **47573**Proportions—Breadth to Length **9.00**Depth to Length—Upper Deck to top of Keel **12.83**Main Deck ditto **16.67**Destined Voyage **Seattle & Japan**Master **J. W. Ekstrand**Year of appointment **(1) As Master in service of owner of present vessel: 18**  
**(2) As Master of this vessel: 18**Built at **Nagasaki**When built **1903** Launched **7.10.02**By whom built **Mitsui Bishi Kyo Kaisha**Owners **The Nippon Yusen Kaisha**Managers **" " " "**Residence **Tokyo**Port belonging to **Tokyo**

Length on Deck **443** Feet. **0** Inches. BREADTH—Moulded **49** Feet. **2** Inches. DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams **30** Feet. **5** Inches. No. of Decks with flat laid **Two**  
as per Rule **443** Do. Do. Do. Do. Main Dk. Beams **22** Do. No. of Tiers of Beams **Two**  
Dimensions of Ship per Register, Length **445.3** breadth **49.5** depth **30.4** Moulded depth, ft. **33** ins. **6** To Upper Dk. Round of Upper Dk. Beam, Actual **12** ins.

FRAMING.				FORGINGS or CASTINGS.			
	Inches in Ship	Inches in Ship	16ths or 20ths per Rule Or as Approved		Inches in Ship	Inches per Rule Or as Approved	
NAME, Angles, or Bars for length amidships	6 1/2	3 1/2	11	KEEL, Bar or Side Plates, depth and thickness	Plate Keel	Plate Keel	
Do. for 1/2 at each end	3 1/2	3 1/2	10	STEM, moulding and thickness	12 x 3 1/4	12 x 3 1/4	
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	11-10	STERN-POST for Rudder do. do.	12 1/2 x 7 1/4	12 1/2 x 7 1/4	
" " at intermdt. Bkts.	3 1/2	3 1/2	11-10	" for Propeller	10 1/2	10 1/2	
Distance of Frames from moulding edge to moulding edge, all fore and aft	30	30	10-9	MAIN PIECE of Rudder, diameter at head	5 1/4	5 1/4	
REVERSED FRAME, Angles	10 1/2	10 1/2	11-10	" do. at heel	5 1/4	5 1/4	
DEEP FRAMING, depth of girder	10 1/2	10 1/2	11-10	RUDDER, how constructed	Single plate	Movable arms	
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	4	4	10-9	Can the Rudder be unshipped afloat?	Yes		
" in way of Engines and Boilers	4	4	10-9	KEELSONS & STRINGERS.			
" thickness at the ends of vessel	4	4	10-9	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
" depth at 1/2 the half breadth, as per Rule	4	4	10-9	" Rider Plate			
" height extended at the Bilges	4	4	10-9	" Bulb Plate to Intercoastal Keelson			
FLOORS & BRACKETS in Cell Dble Bottoms	30	30	10-9	" Horizontal Plates on Floors			
Distance apart	48	48	11-9	" Angles			
ENTRE GIRDER, in Double bottom, depth and thickness	4	4	10-9	SIDE KEELSON, Angles			
" Angles, Top	6 1/2	4 1/2	10-9	" Bulb or Plate above floors, for length			
" Bottom	6 1/2	4 1/2	10-9	" Intercoastal Plate, for length			
SIDE GIRDERS, number on each side & thickness	3 1/2	3 1/2	10-9	" Attached to outside Plating with Angle			
Angles	46	11	11	BILGE KEELSON, Angles			
MARGIN PLATE, depth (exclusive of flange) and thickness	4	4	10-9	" Bulb or Plate above floors, for length			
Angles to Outside Plating	36	11-9	11-9	" Intercoastal Plate for length			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	12/16	12/16	12/16	" Attached to outside Plating with Angle			
" in Engine and Boiler space	10/16	9/16	9-8	SIDE STRINGER Angles			
Remainder in Holds	10/16	9/16	9-8	" Bulb or Intercoastal Plate, for length			
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	11	11	11	" Attached to outside plating with Angle			
Angles on upper edge	10	10	10	Upper Deck Stringer Plates, br'dth & thickness	67 1/2 x 51	16-9	67 1/2 x 51
Average space	60	60	16-9	" Angle on ditto	15 x 5	15-10	15 x 5
BEAMS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	12	12	12	" Tie Plates fore and aft, outside Hatchways			
Angles on upper edge	11	11	11	" Deck, Iron or Steel, for whole length	3	9-8	3
Average space	60	60	9-8	" Wood Deck. Material & thickness	3	9-8	3
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	12	12	12	Middle Deck Stringer Plate, br'dth & thickness	67 1/2 x 51	11-9	67 1/2 x 51
Angles on upper edge	11	11	11	" Angles on ditto, No. 10	4 x 4	9-8	4 x 4
Average space	60	60	9-8	" Tie Plates outside Hatchways			
BEAMS, Hold, or Orlop, Plate or Tee Bulb				" Diagonal Tie Plates on Bms., No. of prs.			
Angles on upper edge				" Deck, Iron or Steel, for whole length		9-8	
Average space				" Wood Deck. Material & thickness			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	9	9	9	Lower Deck Stringer Plate, br'dth & thickness	44 1/2 x 36	13-10	44 1/2 x 36
Angles on upper edge				" Angles on ditto, No. 10	4 x 4	9-8	4 x 4
Average space				" Tie Plates, outside Hatchways	9 x 3	13-8	9 x 3
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	9	" Deck, Material and thickness			
Angles on upper edge				Hold, or Orlop Stringer Plate, br'dth & thckn's	30 1/2 x 26	13-9	30 1/2 x 26
Average space				" Angles on ditto, No. 10	4 x 4	9-8	4 x 4
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	9	" Tie Plates outside Hatchways	9 x 3	13-8	9 x 3
Angles on upper edge				" Deck. Material and thickness			
Average space				Poop Deck Stringer Plate, breadth & thickness	38	9-8	38
PILLARS, In 'tween Deck, size and spacing	3" x 6"	3" x 6"	11-10	" Angle on ditto	4 x 4	10-4	4 x 4
" Hold 4 3/4 x 1 1/2	3" alt. bms	3" alt. bms	11-10	" Tie Plates	14	9-8	14
" Quarter 'tween Dks., " "	6 x 1 1/2 alt. bms	6 x 1 1/2 alt. bms	11-10	" Deck. Material and thickness			
" in Hold	3 x 1 1/2 alt. bms	3 x 1 1/2 alt. bms	11-10	Bridge Deck Stringer Plate, br'dth & thickness	48	11-9	48
WEB-FRAMES, In Fore Body, No. and spacing	26	26	11-10	" Angle on ditto	4 x 4	11-9	4 x 4
" br'dth. & thickness	26	26	11-10	" Tie Plates	6	3	6
" No. of Side Stringers	26	26	11-10	" Deck. Material and thickness			
WEB-FRAMES, In E. & B. Space, No. & spacing	26	26	11-10	Forecastle Deck Stringer Plate, br'dth & th'kns	38	9-8	38
" br'dth. & thickness	26	26	11-10	" Angle on ditto	4 x 4	10-4	4 x 4
" No. of Side Stringers	26	26	11-10	" Tie Plates	7	3	7
WEB-FRAMES, In After Body, No. and spacing	26	26	11-10	" Deck. Material and thickness			
" br'dth. & thickness	26	26	11-10	BULKHEADS.			
" No. of Side Stringers	26	26	11-10	Number, In Vessel, Per Rule.			
BRACKET PLATES to Stringers between Web Frames, depth and thickness	30 x 21	30 x 21	11-10	Thickness, 16ths or 20ths per Rule.			



[illegible]

**Correspondence.**—State dates and initials of correspondence of this case (Reference should be made to any correspondence connected with this case).  
 28 Aug 1901 M. 8 Nov 1901 to Messrs Brown & Harlow. 20 Aug 1901 to same. 16 Nov 1901. M.

**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 plating? *No*

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. 23, par. 24)? *Yes* State results of tests *Satisfactory*

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *Yes* State results of tests *Satisfactory*

**General Remarks** (State quality of workmanship, &c.) *This vessel has been built in accordance with the approved plans & the requirements of the Rules. The workmanship is good throughout. The bulkheads & shaft tunnels have been tested by water & found tight. The hand pumps & watertight doors are in good working order.*

*The plans are being forwarded under separate cover.*

*This vessel is a duplicate of the "Iyo Maru" & "Kaga Maru" excepting as regards details in the deck erections. (Ref. Reports 219 & 202).*

The Surveyor should state the Number of Report and Name of any Sister Vessel.

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop *56* ft., R.Q.D. or Break *✓* ft., Bridge Dk. *120* ft., F'castle *58* 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 (Stl - 11 feet sheathed) & deep framing.*

Official No. ; Signal Letters

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 *Cellular System*

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, <i>Nos 6 &amp; 7. 233 ft &amp; 103 ft</i>	<i>127.5</i>	<i>336</i>	Fore peak tank,		<i>100</i>
Double bottom, under Engines and Boilers,			After peak tank,		<i>30</i>
Double bottom, if under Engines only, <i>No 5.</i>	<i>22.5</i>	<i>89</i>	Midship deep tank,	<i>27.5</i>	<i>490</i>
Double bottom, if under Boilers only, <i>No 4.</i>	<i>30.0</i>	<i>118</i>	Other tanks, if fitted, ( <i>Detached &amp; m. tank 46 tons</i> )		
Double bottom, forward, <i>No 1, 2 &amp; 3. 99 ft. 211 ft. 325 ft</i>	<i>200.0</i>	<i>635</i>	(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. *2nd Jan'y 1902 to 2nd March 1903*

Date *Continuous attendance*

No. *142* in builder's yard. Dates of Surveys held while building *2nd Jan'y 1902 to 2nd March 1903* Total No. of Visits

The amount of Entry Fee, £ *5* : - - Fees applied for, *2 3 03*

Special Survey Fee, £ *264* : *12* : *9* Received by me, *3 3 03*

Travelling Expenses, if any £ : : *3 3 03*

State whether the Vessel has been built under Special Survey *Yes*

I am of opinion this Vessel should be Classed *+ 100 A. 1. Steel*

With, or without Freeboard, as condition of Class *Without*

Certificate to be sent to *The Nagasaki Office*

*A. L. Jones*  
 Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *WED. 15 APR 1903*

Character assigned *100 A. 1. Steel*  
*Lloyd's A. 1. + Linc 3, 03*  
*LN*