

3 Decks.

IRON OR STEEL STEAMER.

253.

MON. JUL 8 1901
Received at London Office.

Date of completion of report 27 May 1901
Survey held at Nagasaki
On the Steel Twin Screw Steamer "Kaga Maru" Rig
Tonnage under 5386.21
Do. between Tonnage Dk. 155.48
Do. of Poop 407.42
Do. of Bridge House 1012.82
Do. of Forecastle 244.14
Do. of Houses on Dk. 244.14
Do. of excess of Hatchways
Do. above Crown of Room 6301.26
Do. Space 377.76
Do. Crown of Room 5023.50
Do. FOR FEES 2614.74
Do. Fine Room
Do. Ignition Spaces
Do. Tonnage 3906.78
Do. on Beam

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

Port of Nagasaki No. 202

Date, First Survey 1st March 1900 Last Survey 21st May 1901

THREE DECKED VESSEL.
CLASS + 100 A1.

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 1901 Launched 26.1.01

By whom built Mitsui Bishi S. & E. W.

Owners Nippon Yusen Kaisha

Managers (Where necessary to be entered in Reg. Book.)

Residence Tokio

Port belonging to Tokio

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
deduct 7 feet 7.00
1st Number 107.39
Length on deck from after part of stem to fore part of stern post 443
2nd Number 47573
Proportions—Breadth to Length 9.0
Depth to Length—Upper Deck to top of Keel 12.83
Main Deck ditto 16.67
Destined Voyage Seattle

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

BREADTH—Feet. Inches. Moulded 44 3 0
DEPTH, ACTUAL—Feet. Inches. Top of Keel to top of Upper Dk. Beams 30 5 5
Do. do. Main Dk. Beams 22 5 5
No. of Decks with flat laid Two
No. of Tiers of Beams Two
Round of Upper Dk. Beam, Actual 12 ins.
Moulded depth, ft. 33 ins. 6 To Upper Dk.

FRAMING.				FORGINGS or CASTINGS.			
Inches in Ship	Inches in Ship	20ths per Rule	Inches per Rule	Inches in Ship	Inches in Ship	20ths per Rule	Inches per Rule
Angles, $\frac{1}{2}$ E or L Beam for $\frac{1}{2}$ length amidships	6 1/2	3 1/2	11	6 1/2	3 1/2	11	
or $\frac{1}{2}$ at each end			10			10	
Way of Double Bottoms at Solid Floors	3 1/2	3 1/2	11	3 1/2	3 1/2	11	
" " at intermdt. Bkts.			all solid floors				
of Frames from moulding edge to lining edge, all fore and aft	30		30				
USED FRAME, Angles	7	3 1/2	11	7	3 1/2	11	
FRAMING, depth of girder	10 1/2		10 1/2				
RS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships							
in way of Engines and Boilers							
thickness at the ends of vessel	in peaks	8		8			
Depth at $\frac{1}{2}$ the half breadth, as per Rule							
Height extended at the Bilges							
IS & BRACKETS in Cell Dble Bottoms	30		10-9	30		10-9	
" Distance apart							
GE GIRDER, in Double bottom, depth and thickness	48		11-9	48		11-9	
" Angles, Top	4	4	10	4	4	10	
" " Bottom	6 1/2	4 1/2	10-9	6 1/2	4 1/2	10-9	
GIRDERS, number on each side & thickness	Two		10-9	Two		10-9	
" Angles	3 1/2	3 1/2	10	3 1/2	3 1/2	10	
IN PLATE, depth (exclusive of flange) and thickness	40		11	40		11	
" Angles to Outside Plating	4	4	10	4	4	10	
BOTTOM PLATING, breadth and thickness of Middle Line Strake	36		11-9	36		11-9	
" " in Engine and Boiler space	13/16 in B. Sp.		13/16 in B. Sp.				
" " Remainder in Holds	10-9		10-9				
IS, Upper Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	11		11			11	
Angles on upper edge	to 10		10	to 10		10	
Average space	60		60				
IS, Middle Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	12		12			12	
Angles on upper edge	to 11		11	to 11		11	
Average space	60		60				
IS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	12		12			12	
Angles on upper edge	to 11		11	to 11		11	
Average space	60		60				
IS, Hold, or Orlop, Plate or Tee Bulb							
Angles on upper edge							
Average space							
IS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	9		9			9	
Angles on upper edge							
Average space	60		60				
IS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	9	7 1/2	3	9	
Angles on upper edge							
Average space	30		30				
IS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	7 1/2	3	9	7 1/2	3	9	
Angles on upper edge							
Average space	30		30				
PILLARS, in 'tween Deck, size and spacing	3" every 6m		3" every 6m				
" " Hold 4 3/4 x 7 1/6 x 5 3/4 x 7 1/6	6 x 7 1/6 hollow		6 x 7 1/6				
" " Quarter 'tween Dks., " "	3" alt. bms		3" alt. bms				
" " in Hold " "	6 x 7 1/6 alt bms		6 x 7 1/6 alt bms				
WEB-FRAMES, in Fore Body, No. and spacing	Three 26 10-10		Three 26 11-10				
" " " " " "	alternately with bds.						
" " No. of Side Stringers " "	Two		Two				
WEB-FRAMES, in E. & B. Space, No. & spacing	One in B. Sp.		One in B. Sp.				
" " " " " "	26		26				
WEB-FRAMES, in After Body, No. and spacing	Two		Two				
" " " " " "	26		26				
" " No. of Side Stringers " "	Two		Two				
" " " " " "	Two		Two				
" " Size of Angles or Tee Bars to Web-Frames	6 4 16		6 4 16				
BRACKET PLATES to Stringers between Web Frames, depth and thickness	all from 10-9		all from 10-9				
	30 x 21 deep						
KEEL, Bar or Side Plates, depth and thickness				Plate			
STEM, moulding and thickness				12 x 3 1/4		12 x 3 1/4	
STERN-POST for Rudder do. do.				12 1/2 x 7 3/4		12 1/2 x 7 3/4	
" " for Propeller				Swim. Pers.			
MAIN PIECE of Rudder, diameter at head				10 1/2		10 1/2	
" " do. at heel				5 1/4		5 1/4	
RUDDER, how constructed				Movable arms		Single plate	
Can the Rudder be unshipped afloat?				Yes			
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate							
" Rider Plate							
" Bulb Plate to Intercoastal Keelson							
" Horizontal Plates on Floors							
" Angles							
SIDE KEELSON, Angles							
" Bulb or Plate above floors, for				Ing.			
" Intercoastal Plate, for				length			
" Attached to outside Plating with Angle							
BILGE KEELSON, Angles							
" Bulb or Plate above floors, for				Ing.			
" Intercoastal Plate for				length			
" Attached to outside Plating with Angle							
BILGE STRINGER Angles							
" Bulb Plate for				length			
" Intercoastal Plate for				length			
" Attached to outside Plating with Angle							
SIDE STRINGER Angles							
" Bulb or Intercoastal Plate, for				Ing.			
" Attached to outside plating with Angle							
Upper Deck Stringer Plates, br'dth & thickness				67-51 16-9		67-51 16-9	
" Angle on ditto				3 x 5 15-10		3 x 5 15-10	
" Tie Plates fore and aft, outside Hatchways							
" Deck * Iron or Steel, for whole Ing.				9-8		9-8	
" Wood Deck. Material & thickness				Seam 3		Seam 3	
Middle Deck Stringer Plate, br'dth & thickness				67-51 11-9		67-51 11-9	
" Angles on ditto, No. Two				4 x 4 9-8		4 x 4 9-8	
" Tie Plates outside Hatchways							
" Diagonal Tie Plates on Bms, No. of prs.							
" Deck * Iron or Steel, for whole Ing.				9-8		9-8	
" Wood Deck. Material & thickness							
Lower Stringer Plate, br'dth & thickness				44-36 13-10		44-36 13-10	
" Angles on ditto, No. Two				4 x 4 9-8		4 x 4 9-8	
" Tie Plates outside Hatchways				Face B. A. 9 x 3 13-8		9 x 3 13-8	
" Deck * Material and thickness							
Hold, or Orlop Stringer Plate, br'dth & thckn's				30-26 13-9		30-26 13-9	
" Angles on ditto, No. Two				4 x 4 9-8		4 x 4 9-8	
" Tie Plates outside Hatchways				Face B. A. 9 x 3 13-8		9 x 3 13-8	
" Deck. Material and thickness							
Poop Deck Stringer Plate, breadth & thickness				38		38	
" Angle on ditto				4 x 4 10		4 x 4 10	
" Tie Plates				17 3		17 3	
" Deck. Material and thickness				Seam			
Bridge Deck Stringer Plate, br'dth & thickness				48		48	
" Angle on ditto				4 x 4 11		4 x 4 11	
" Tie Plates				Plated. on 1/20 bms. 5 hangers & casings			
" Deck. Material and thickness				Seam			
Forecastle Deck Stringer Plate, br'dth & th'kns				38		38	
" Angle on ditto				4 x 4 10		4 x 4 10	
" Tie Plates				Plated. on 1/20 bms.			
" Deck. Material and thickness				Seam			
BULKHEADS.							
In Vessel	Per Rule	Thickness					
W. T. BULKHEADS	7	8	7				
PARTITION	2						
LONGITUDINAL							
STIFFENERS.							
Horizontal	Vertical	Single or Double Frames	Height up				
Size. Spacing	Size. Spacing						
Inches. 20ths	Inches. 20ths						
6 x 3 1/2 48	6 x 3 1/2 48						
2 inches as ap							
Are the outside Plates doubled two spaces of Frames in length?				Diamond shaped			
Are the Sluice Valves and Watertight Doors in efficient working order?				Yes			

PLATING.

STRAKES.	AS IN SHIP.			PER RULE OR AS APPROVED.	EDGES.			BUTTS.				
	AMIDSHIP.	FORWARD.	AFT.		AMIDSHIP.	Single or Double.	Breadth of Lap.	RIVETS.	Double or Treble and for what length.	RIVETS.	STRAKES.	IF LAPPED.
	Breadth.	Thickness.	Thickness.	Breadth.	Thickness.	Thickness.	Inches.	Diam.	Spacing or to center.	Inches.	Breadth.	Thickness.
FLAT PLATE KEEL.....	36	20	15	36	20	15	6"	1"	3/4"	1"	16"	11/16"
GARBOARD OR A STRAKE.....	48	14	12	48	14	12	6"	1"	3/4"	1"	16"	11/16"
B "	14	12	12	14	12	12	6"	1"	3/4"	1"	16"	11/16"
C "	13	11	11	13	11	11	6"	1"	3/4"	1"	16"	11/16"
D "	14	12	12	14	12	12	6"	1"	3/4"	1"	16"	11/16"
E "	16	13	13	16	13	13	6"	1"	3/4"	1"	16"	11/16"
F "	17	14	14	17	14	14	6"	1"	3/4"	1"	16"	11/16"
G "	16	13	13	16	13	13	6"	1"	3/4"	1"	16"	11/16"
H "	15	12	12	15	12	12	6"	1"	3/4"	1"	16"	11/16"
J "	14	11	11	14	11	11	6"	1"	3/4"	1"	16"	11/16"
K "	15	12	12	15	12	12	6"	1"	3/4"	1"	16"	11/16"
L "	14	11	11	14	11	11	6"	1"	3/4"	1"	16"	11/16"
M "	15	12	12	15	12	12	6"	1"	3/4"	1"	16"	11/16"
N "	54	19	11	54	19	11	6"	1"	3/4"	1"	16"	11/16"
O "	49	21	12	49	21	12	6"	1"	3/4"	1"	16"	11/16"
P "												
Q "												
R "												
DOUBLING OF PLATE KEEL.....	15 1/2"			15								
Length of Bilges.....												
Thickness of Sheerstrakes.....												
Thickness of Strake below.....												
POOP SIDES.....	8			8								
BRIDGE SIDES.....	8			8								
FORECASTLE SIDES.....	8			8								

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.: *Rivets: Miller & Co. New Street, London E.C.4.*

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

FRAMES extend in one length from *tail margin to upper deck, & are carried up in erections.*

REVERSED FRAMES on floors and frames extend from *tail margin to upper deck, for 1/2 length amidships, & fire raft of 1/2 d. alternately to up main deck.*

MASTS, SPARS, &c.

LOWER MASTS.....	Material.	Total Length.	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Heads.		Number.	Size.	Seams.	Butts.
Fore.....	Steel	140' 3"	27" x 21"	22" x 21"	8" x 7/16"	Two	3	3" x 1 1/2"	Sing.	Double
Main.....	"	119' 11"	25" x 21"	24" x 21"	8" x 7/16"	Two	3	3" x 1 1/2"	Sing.	Double
Mizen.....	"									

Bowsprit.....

Topmasts, Yards and Remainder of Spars.....

Rigging, Material and Size, Shrouds..... *4" steel wire*

Sails, *Thompson's* Canvas..... *Stars fore 1 1/4" Main 1 1/4" dunt. B.R. ship*

EQUIPMENT No. 53896 LETTER A7

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX STOCK.		WEIGHT OF STOCK.		TEST, PER CERTIFICATE.		WEIGHT REQUIRED BY TABLE 22.		Description of Anchor.	Makers.	Where and when tested and by whom.
		Cwts.	lbs.	Cwts.	lbs.	Cwts.	lbs.	Cwts.	lbs.			
38964	1st Bower	54	1	14	1	46	15	2	14	54	2	0
38932	2nd "	32	0	7	13	0	4	43	14	0	7	54
38967	3rd "	46	9	0	12	1	7	40	6	3	14	46
	4th "											
	Collective weight	156	0	7				155	2	0		
38923	Stream	16	2	14	4	1	14	17	18	1	21	16
38956	Kedge	8	0	14	2	0	7	10	5	0	0	8

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	Test per Certificate.	WEIGHT OF CHAIN CABLE.		Fathoms and Size per Table 22.	Description.	Makers of Cables.	When and where tested, and by whom.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire.	Fathoms and Size per Table 22.
				Supplied.	Per Table 22.									
15315	300	2 1/2"	96 1/4	801	3 1/4	270	2 1/2"	Geo. Harrison	L. H. Welford	TOWLINE	Two	90	4	33
								Richardson	Sund. 29.6.00	HAWSE	One	90	3 1/4	22
										WARP	Two	90	8	12
											One	120	4	12

HAWSE AND WARPS.

Boats 4 steel lifeboats 26' x 8' x 3' 3". 4 wood L. boats same size. 2 cutters 24' x 6' 6" x 2' 6" 19hp. 1 Jolly boat.

Pumps, Number 2, for fire & five aft.

Windlass is Good.

Engine Room Skylights—How constructed? *Plates & angles*

What arrangements for deadlights in bad weather? *Bull's eyes in teak frames*

Coal Bunker Openings—How constructed? *Hatchways*

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 6 Scup. a side. 7 freeing ports a side 5' 0" x 1' 4".

Ceiling in Holds, thickness and material. *3"*

Cargo Hatchways—How formed? *Plates & angles. Coaming 2' 6" a side. Hatches, if strong and efficient? Yes*

State size No. 1 Hatch (Forward) 20' 0" x 16' 0". No. 2 Hatch 25' 0" x 16' 0". No. 3 Hatch 20' 0" x 16' 0". No. 4 Hatch 25' 0" x 16' 0".

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch. *Two deep webs to each 25' 0"*

hatchway + one to each 20' 0" hatchway. 3 m. No. of Breasthooks 8 ribs deck. No. of Crutches 8 deep floors.

Bulwarks, height above deck and description. *4' 0" of 7/8" steel plates*

Main Rail, material and size. *8" x 3"*

The above is a correct description.

Builder's Signature (here only) *I. Maruba foreman*

Surveyor's Signature *A. L. Jones.*

Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) *Plans appr. per A.R. Brown & Co. 20.9.99 & 10.10.99. E. 2.3.00 E 19.4.00 (M. 12.1.00 re. S.W.)*

Workmanship. Are the butts of plating planned or otherwise fitted? *Planned*

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 under special survey in accordance with the approved plans. The workmanship is throughout of good quality. The steel is certified to have been tested as required by the Rules.*

The bulkheads & the shaft tunnels have been tested by playing the water hose over them & were found tight.

The hand pumps & water tight doors have been tested & found in order.

The approved midship section & profile tracings are forwarded herewith.

Speed on trial 15 knots.

The Surveyor should state the Number of Report and Name of any Sister Vessel. *Shinano Maru (D.W. Hudson)*

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 51 ft., R.Q.D. or Break ft., Bridge Dk. 120 ft., F'castle 28 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 D.K. (Steel - U. Head S) & deep framing 2 tiers of beams.*

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.

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
Double bottom, aft. <i>No. 6 & 7. 233 ft x 103 ft</i>	142' 6"	336	Fore peak tank,		100
Double bottom, under Engines and Boilers,			After peak tank,		30
Double bottom, under Engines only, <i>No. 5 & 6</i>	22' 6"	89	Midship deep tank,	28	490
Double bottom, under Boilers only, <i>No. 4</i>	30' 0"	118	Other tanks, if fitted, <i>(M. L. H. Co. tank)</i>		
Double bottom, forward, <i>No. 1 & 2. 99 ft x 211 ft. 325 ft x 100 ft</i>	632	632	(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. *1st March 1900 to 21st May 1901*

Date *Continuous attendance at the yard.*

No. *123* in builder's yard.

DATES OF SURVEYS held while building

Total No. of Visits

The amount of Entry Fee.....£ 5 : - -

Special Survey Fee.....£ 250 : 13 : -

Traveling Expenses, if any £ : : -

Fees applied for, *21st May 1901*

Certificate to be sent to *This office*

Received by me, *A. L. Jones*

22nd May 1901

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

I am of opinion this Vessel should be Classed *+ 100 A1 Steel* 5.01

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

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute *TUES. JUL 9 1901*

Character assigned *A + C P*

100 A1 Steel

Ansquire

+ 2 M 5.01

Ball Certificate, Winton, 9/10/01.