

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office MON. 25 SEP. 1916

Date of completion of report 17th August

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

Survey held at Kobe
On the (State if Single, Twin, or Triple Screw) Single Screw Steamer

Port of Kobe
Date, First Survey 15th July 1916

Last Survey 18 July 1916

TONNAGE under
Tonnage Deck...
Do. between Tonnage Dk. and 3rd and 4th Dk.
Total under Upper Dk. 1278.49
Do. of Poop 290.87
Do. of Bridge House 25.67
Do. of Forecastle 15.16
Do. of Houses on Dk. 25.69
Do. of excess of Hatchways above Crown of Engine Room 29.67
Gross Tonnage 1725.49
Less Crew Space 122.26
Less above Crown of Engine Room 552.16
Less Navigation Spaces 6.92
Peak Loads 20.88
Register Tonnage 1023.27

CLASS + 100 A1.

FEET.

Breadth (greatest moulded) 37.75
Depth, at middle of length from top of keel to top of upper deck beams at side 20.50
Transverse Number 58.25
Length on deck from fore part of stem to after part of stern post 250.0
Longitudinal Number 14562
Depth "d," at middle of length (See Secs. 2 & 13) N. 92
Proportions—Depths to Length—Upper Deck Beam at side to top of keel 12.2
Long Bridge Deck Beam at side to top of keel 8.93

Master M. Hagisuda
Year of appointment (1) As Master in service of owner of present vessel—191 (2) As Master of this vessel—191

Built at Kobe
When built 1916-7 Launched 21st May 1916
By whom built The Mitsu Bishi Dry Dock Co. Ltd.
Owners The Mitsu Bishi Kaisha
Managers (Where necessary to be entered in Reg. Book.)
Residence Tokio
Port belonging to Tokio

Destined Voyage Japan - China If Surveyed while Building, Afloat, or in Dry Dock Building.

LENGTH on Deck as per Rule 250 0 BREADTH Moulded 37 9 DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams 18 4 No. of Decks with flat laid one No. of Tiers of Beams one
Moulded depth, ft. 28 ins. 0 To Bridge Dk. Round of Upper Dk. Beam, Actual 9 1/2 ins.
Moulded depth, ft. 20 ins. 6 To Upper Dk.

FRAMING.				PILLARS.			
FRAME, Angles, & Bulbs	Inches in Ship	Inches in Ship	Inches in Ship	PILLARS, In 'tween Deck, size and spacing	Inches in Ship	Inches in Ship	Inches in Ship
Do. in peaks	8 1/2	3	48	" " Hold 4 1/2 x 4 1/2 x 4 1/2 x 5.5	3 1/2	3 1/2	36
Do. in way of Double Bottoms at Solid Floors	5 1/2	3	32	" " Quarter 'tween Dks., " "	2 1/2	2 1/2	24
" " at intermdt. Bkts.	6	3	40	" " in Hold " "	2 1/2	2 1/2	24
Spacing of Frames from centre to centre amidships	27		27				
" " length to Collision bulkhead	27		27				
" " in peaks	24		24				
REVERSED FRAME, Angles, in A.P.	3	3	32				
Do. in way of Double Bottoms at Solid Floors	3 1/2	3	32				
" " at intermdt. Bkts.	5 1/2	3	40				
FRAMING, depth of girder in A.P.	4 1/2		4 1/2				
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships							
" in way of Engine and Boiler Spaces							
" thickness at the ends of vessel							
" depth at 1/2 the half breadth, as per Rule							
" height extended at the Bilges							
FLOORS in Cell, Double Bottoms	32	42	32				
" state if flanged (top & bottom)	32	42	32				
" Spacing of Solid floors	54		54				
CENTRE GIRDER, in Dbl. bottom, dpth. & thcknss.	35	44	36				
" Angles, Top	4	4	50				
" " Bottom	4	4	50				
5.5 x 38 x 48 in 2 fls. Sp. Floors	3	3	32				
Brackets at intermdt. frmg., wdth & thcknss	30	42	32				
SIDE GIRDERS, number on each side & thickness	One		One				
" state if flanged (top and bottom)	Top, 6 x 6 in 5 fls. sp. 1/2 in 3 fls.						
" Angles (top and bottom)	3	3	32				
" " to Floors	2 1/2	2 1/2	32				
MARGIN PLATE, depth (exclusive of flange) and thickness	26	46	36				
" Angle to Outside Plating	3 1/2	3 1/2	36				
" Floors	3	3	32				
Brackets at intermdt. frmg., wdth & thcknss	30	42	32				
Height of Outside Brackets above at bilge	17		17				
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	35	40	34				
" in Engine and Boiler space	35	48	34				
" Remainder in Holds	32	30	32				
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	6 1/2	3	42				
" In way of Long Bridge Poop	5 1/2	3	34				
" Spacing	27		27				
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel							
" Spacing							
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel							
" Angles on upper edge							
" Spacing							
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5 1/2	3	40				
" Angles on upper edge							
" Spacing	27		27				
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel							
" Angles on upper edge							
" Spacing							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	7 1/2	3	46				
" Angles on upper edge	6 1/2	3	40				
" Spacing	54	48	54				
Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)				45-25	52-36	45-25	52-36
" " " " (br'dth & thickness in way of Bridge)				45-24	44-36	45-24	44-36
" " " " Angle (clear of Bridge)				4-4	52	4-4	52
" " " " Tie Plate at sides of Hatchways					30		30
" " " " Deck * Iron or Steel, for whole lng.					30		30
" " " " Thickness (clear of Bridge)					30		30
" " " " (in way of Bridge)							
" " " " Wood Deck. Material & thickness							
Second Deck Stringer Plate, br'dth & thickness							
" Angles on ditto, No.							
" Tie Plates outside Hatchways							
" Deck * Iron or Steel, for lng.							
" Wood Deck. Material & thickness							
Third Deck Stringer Plate, br'dth & thickness							
" Angles on ditto, No.							
" Tie Plates, outside Hatchways							
" Deck * Material and thickness							
Fourth and Fifth Deck Stringer Plate, breadth & thickness							
" Angles on ditto, No.							
" Tie Plates outside Hatchways							
" Deck. Material & thickness							
Poop Deck Stringer Plate, breadth & thickness				54-24	48-36	54-24	48-36
" Angle on ditto				4-4	48	4-4	48
" Tie Plates					30		30
" Deck. Material and thickness							
Bridge Deck Stringer Plate, br'dth & thickness							
" Angle on ditto							
" Tie Plates							
" Deck. Material and thickness							
Forecastle Deck Stringer Plate, br'dth & th'kns				24	30	24	30
" Angle on ditto				3-3	30	3-3	30
" Tie Plates					30		30
" Deck. Material and thickness							

[illegible]

EQUIPMENT No. 13546						LETTER q						ANCHORS.						TONNAGE U.D.K. 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.	lbs.							
74624	1st Bower ...	33	3	10	Stickless	31	10	2	14	33	0	0	Nelli c.s. head	M. Huxley & Son	Netherton 20/1/16	H.E.							
74630	2nd " ...	38	2	5	do	31	6	3	14	33	0	0	do	do	do	do							
74629	3rd " ...	28	1	6	do	27	8	0	14	28	0	0	do	do	do	do							
	4th " ...																						
	Collective weight	93	2	21						94	0	0											
74651	Stream	8	2	11	2	0	27	10	15	0	0	0	Ord. Wrt. Iron	do	do	do							
74650	Kedge	4	2	6	1	0	21	7	0	0	0	0	do	do	do	do							

CHAIN CABLES.										HAWSEERS 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.	
		Fathoms.	Inches.	Tons.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.							Fathoms.	Inches.	Tons.	Fathoms.	Inches.	
62558	120	1 1/2	5 1/4	7 1/4	174	3	7	172	1	11	120	1 1/2	Slad	M. Huxley & Son	Netherton 20/1/16	H.E.	TOWLINE	90	3 1/2	2 1/2	90	3 1/2	
62554	120 1/2	"	"	"	175	2	12	172	1	11	120	"	do	"	"	"	HAWSEERS & WARPS	2-90	6	manila	2-90	6	
	Iron Stream Chain or Steel Wire	75	4	33	50	1	19	34	2	27	75	4	S.W.	Lloyds Sudo	Makers Cert		"	2-90	5	"	2-90	5	

Boats 1 kip 25'0" x 7'15" x 3'05". Tenma 20'7" x 5'35" x 2'1". Steering Gear, Steam by Builders. Steering Gear, Hand by Builders.
Pumps, Number Down 10 1/2 ac comp. N.p. 1/2 FP Diameter of Barrel 5" x 4 State whether they are in efficient working order Yes
Windlass is by Builders Capstan Combined.
Engine Room Skylights.—How constructed? Plates & angles What arrangements for deadlights in bad weather? Glass in steel frames
Coal Bunker Openings.—How constructed? Slid covers How are lids secured? 2 1/2 hatches Height above deck? 18" on long poop
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 3 a side in well & 3 a side on poop. F.P. 3 a side 3'6" x 2'0"
Ceiling in Holds, thickness and material. 2 1/2 Pine Cargo Battens, thickness and material. Turn dks. 2" pine
Cargo Hatchways.—How formed? Plates & angles Hatches, If strong and efficient? Yes
State size No. 1 Hatch (Forward) 27'0" x 16'0" No. 2 Hatch 38'3" x 16'0" No. 3 Hatch 29'3" x 16'0" No. 4 Hatch
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch No. 1—5 web plates. No 2—4 w.p. No 3—5 w.p.
No. of Breasthooks 2 below up dks. No. of Crutches Dup floors
Bulwarks, height above deck and description 3'6" at 25' plate 6'3" at 38' BA Main Rail, material and size 6'3" BA
The foregoing is a correct description. J. Sugitani Surveyor's Signature Arthur L. Jones Surveyor to Lloyd's Register of British and Foreign Shipping.
Builder's Signature (here only)

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)
M 31/3/15. to Reg. M 2/6/15 M 30/6/15. M 3/7/15.
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? Jagged framing 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? 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. 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.)
This vessel has been built under Special Survey in accordance with the Rule + the approved drawings. The Workmanship has been found good.
Approved tracings sent under separate cover

The Surveyor should state the Number of Report and Name of any Sister Vessel.
Plans to be forwarded with F.E. Report showing vessel as built.

Fees applied for,		Certificate to be sent to		Date of issue
The amount of Entry Fee	Open : 40 :	28 July 1916	Robe	26/9/16
Special Survey Fee	Open 10 22 :	Received by me.		
Travelling Expenses, if any	Open : 10 :	12 Aug 1916		

State whether the Vessel has been built under Special Survey Yes
I am of opinion this Vessel should be Classed + 100A1 Steel
With, or without Freboard, as condition of Class Without
Surveyor to Lloyd's Register of British and Foreign Shipping:
Arthur L. Jones

Committee's Minute TUE SEP 26 1916
Character assigned 100A1
Lloyd's a r b. O
+ L.R.B. 7.16
J.D.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 125 ft., R.Q.D. ft., Bridge ft., Forecastle 28 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated Long poop extending to midship line.

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) 1 Deck, Steel.
Official No. 19283 ; Signal Letters NCHP State if Machinery is fitted aft No.
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,	54.0	61.15	Fore peak tank,	S.W. 48.4	F.W. 47.25
Double bottom, under Engines and Boilers,	47.25	98.48	After peak tank,		S.W. 31.43
Double bottom, if under Engines only, 18' 0"			Deep tank, aft,		
Double bottom, if under Boilers only, 29' 3"			Deep tank, forward,		
Double bottom, forward,	105.75	172.85	Other tanks, if fitted,		
	Total capacity of double bottom	332.48	(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. 15th 21st 28th Feb. 2nd 15th 17th 25th 29th March. 7th 12th 18th 20th 21st April
Date 30th June 1915
No. 63 in builder's yard.
DATES of Surveys held while building 3rd 8th 11th 13th 15th 20th 21st 27th May. 1st 2nd 5th 15th 19th 20th June 3rd 11th 14th 18th July 1916
Total No. of Visits 31

Surveyor's Signature Arthur L. Jones Lloyd's Register Foundation