

## STEEL STEAMER or MOTORSHIP.

16 JUN 1930

Received at London Office

State if Report has been sent on the Freeboard of the Vessel **Yes (Kobe)**State if Report is sent on the Machinery of the Vessel **Yes**Date of completion of report **19th May, 1930.**Port of **NAGASAKI.**No. **1726**Survey held at **NAGASAKI.**Date First Survey **16th May, 1929.**Last Survey **14th May, 1930.**On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **Steel Twin Sc. Motor Vessel "Rio de Janeiro Maru".**State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **Complete Superstructure without tonnage opening** State Type of Erections **Bridge and Forecastle.**TONNAGE under Tonnage Deck... **6,031.77**CLASS **\*100AI.**State if with freeboard as condition of Class **Yes**Built at **Nagasaki.**Do. of space or spaces between Tonnage Dk. and Upper Dk. **1,943.08**Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) **L 460.0**Breadth (greatest moulded) **B 62.0**Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 39.5**1st Longitudinal Number (L x D) = **18363**2nd Numeral L x (B + D) = **46883.2**Framing Depth "d," at middle of length. See Sec. 3 (1d) **18'-0"**Proportions—Depth to Length—Uppermost continuous deck to top of keel **11.65**Do. Long Bridge to top of keel **9.69**Draught Moulded **25'-9.96"**Launched **19th Nov. 1929.** Yard No. **457.**Builders **Nagasaki Works, Mitsubishi Zosen Kaisha, Ltd.,**Owners **Osaka Shosen Kabushiki Kaisha.**Managers **/**  
(Where necessary to be entered in Reg. Book.)Residence **Osaka.**Port of Registry **Osaka.**

If surveyed while building, afloat, or in dry dock

**While Building.**

## REGISTERED DIMENSIONS.

Length **460.0**  
Breadth **62.0**  
Depth **39.5**

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	33		Bracket Floors, Frame	B.A. 7 3 1/2 .38	
" " from 1/2 length to Collision bulkhead	27		" " Reversed Frame	B.A. 6 3 .42	
" " in peaks	24		" " Vertical Struts	B.A. 6 3 .42 CH. 10 3 1/2 .42 between Intercostals.	
FRAME FRAMING.			Centre Girder, depth and thickness amidships	48 .62	
Frame Amidships, <del>Angle</del> [	11 3 1/2 .54		" " top Angles	D.A. 3 1/2 3 1/2 .56	
" " Extends up to	3rd Deck		" " bottom Angles	D.A. 5 5 .66	
Reversed Frame Amidships, Angle	/		Side Girders, No. each side and thickness	2 .44	
" " Extends up to	/		Margin Plate depth (excl. of flange) and thickness	39 .56	
Depth of Framing Girder	11		" " Vertical Angle to Tank side	6 6 .48	
Frames in Uppermost Continuous 'tween Decks, Angle [	8 3 1/2 .36 } at alt 6 3 1/2 .54 } frame.		" " Bracket abaft 1/2 len. from stem	6 6 .48	
" " Second 'tween Decks, Angle [	8 3 1/2 .36 } at alt 11 3 1/2 .54 } frame.		" " Vertical Angle to Tank side	6 6 .48	
" " Third " " " "	8 3 1/2 .42		" " Bracket forward 1/2 len. from stem	6 6 .48	
Framing in Peaks, <del>Angle</del> [	8 3 1/2 .42		" " Gussets, spacing and scantling abaft 1/2 len. from stem	.48-.44 continuous plate.	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 dia 5 1/2 in holds.		" " Gussets, spacing and scantling forward 1/2 len. from stem	.44 " "	
State if Frame Joggled	Yes		Tank Side Brackets, height above top of frame and thickness	86 .50	
PLATING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frame Arrangement FRS 11x3 1/2 .54 BA with 5x3 1/2 .46 A extending to 3rd Deck.		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Add. Int. side girder fitted @ 8'-0" apart & half height girder extending as far as practicable.		Breadth and thickness of Middle Line Strake	56 .56-.46	
SINGLE BOTTOM.			Thickness of remainder in Holds	.48-.42	
Floors, Depth and thickness at mid-line in Holds	Three strakes of shell plating next to keel maintained .68 to collision bulkhead.		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	Yes	
Height of Brackets at side above base line at toe of frame			BEAMS.		
Middle Line Keelson, on Floors, Angles, [ or [			Uppermost Continuous Deck, amidships in <del>angle</del> [	8x3x3x.42	
" " " Through Plate or Intercostal Plate			" " in way of Bridge, Angle, [	8x3x3x.42	
" " " Foundation Plate on Floors			Spacing	33	
" " " Flat Plate Keel Angles			Second Deck, amidships, <del>Angle</del> [	8x3x3x.42	
Side Keelsons, No. each side			Spacing	33	
" " thickness of Intercostal Plate			Third Deck, amidships, <del>Angle</del> [	8x3 1/2 x3 1/2 .50 8x3x3x.38	
" " Angles			Spacing	33	
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, [ or [		
Solid Floors, thickness and spacing	.44 99		Spacing		
" " Are Frame and Reversed Frame joggled?	Frame only		Poop Deck, Angle, [ or [		
Bracket Floors, breadth and thickness at middle line	.44 34 1/2		Spacing		
" " breadth and thickness at margin plate	.44 34 1/2		Bridge Deck, <del>Angle</del> [	8x3x3x.42	
			Spacing	33	
			Forecastle Deck, <del>Angle</del> [	8x3x3x.34	
			Spacing	24 & 27	

## PILLARS AND DECKS.

	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.....</b>								
" in 'tween Decks, Size and Spacing.....				Widely				
" " " " " "				Spaced				
" " " " " "				Pillars.				
" in Holds " "								
" " " " " "								
<b>Centre Line Bulkhead.</b>								
Stiffeners and Spacing.....				/				
Plating, thickness of .....				/				
<b>STRINGERS AND DECKS.</b>								
<b>Uppermost Continuous Deck.</b>								
Stringer Plate, breadth and thickness in Wells	66		.75					
" " " " in way of Bridge	66		.44					
" Angle in Wells .....	6	6	.75					
Thickness of Plating abreast Deck openings in way of Wells .....			.54					
Thickness of Plating abreast Deck openings in way of Bridge .....			.51					
Thickness of Plating within line of openings...			.44 & .36					
If Sheathed, material and thickness	3" O.P. where exposed							
	2 1/2" O.P. where enclosed							
<b>Second Deck.</b>								
Stringer Plate, breadth and thickness in Wells...	51		.46					
Stringer Plate, breadth and thickness in way of Bridge .....	51		.40					
Thickness of Plating abreast Deck openings in way of Wells .....			.42					
Thickness of Plating abreast Deck openings in way of Bridge .....			.36					
Thickness of Plating within line of openings...			.36					
If Sheathed, material and thickness	2" O.P. in Crews quarters.							
<b>Third Deck.</b>								
Stringer Plate, breadth and thickness.....	51	.34	.42					in way of Deep tank.
If Plated, state thickness.....		.30	.42					" "
<b>Fourth Deck.</b>								
Stringer Plate, breadth and thickness.....								
If Plated, state thickness .....								
<b>Poop Deck.</b>								
Stringer Plate, breadth and thickness .....								
Plating, Sheathing, material and thickness ..								
<b>Bridge Deck.</b>								
Stringer Plate, breadth and thickness.....	66	.50						
Plating, Sheathing, material and thickness ..	.42	3" O.P. where exposed						enclosed
	2 1/2" "							
<b>Forecastle Deck.</b>								
Stringer Plate, breadth and thickness.....	36	.38						
Plating, Sheathing, material and thickness ..	.30	3" O.P. in way of						windlass.
	2 1/2" "							

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.								
FLAT PLATE KEEL .....	55	.86	.76	.76		Double	1	3 2/3	4-3	1	4	Lapped
„ DBLG. (if any) .....	71 5/8											
BOTTOM PLATING, No. of Strakes ..4.....	77 3/4											
BILGE PLATING, No. of Strakes ..4.....	78 1/4	.68	.52	.52		"	7/8	3 1/3	"	7/8	3 1/2-3	"
SIDE PLATING, No. of Strakes ..4.....	76 1/2	.68	.52	.52		"	"	"	"	"	"	"
UPPER DECK, Sheer- strake in Wells.....	77 1/4	.68	.52	.52		"	"	"	"	"	"	"
UPPER DECK, Sheer- strake in Bridge ...	80 1/2	.66	.50	.50		"	"	"	3	"	3	"
STRAKE BELOW Sheer- strake in Wells.....	82 5/8	.66				"	"	"	5	1 1/4	5.6	at B. ends.
STRAKE BELOW Sheer- strake in Bridge ...	82 1/2	.77	.50	.50	1.16 @ Bridge ends.	"	"	"	4-3	7/8	3 1/2-3	"
POOP SIDE PLATING .....	58 3/8	.66	/	/	air port .81	"	"	"	4	"	3 1/2	"
BRIDGE SIDE PLATING ...	78 3/8	.70	.50	.50		"	"	"	4-3	"	3 1/2-3	"
FORECASTLE SIDE PLATING	78 3/8	.66				"	"	"	3	"	3	"
		/							/			
		.58				"	"	"	3	"	"	"
			.44			Single	3/4	3	1	3/4	2 5/8	"

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>				
Extending to Upper Deck (Sec. 3 c) .....	7			
" Deck next below .....	7			
As per Rule .....	7			
<b>For particulars of other bulkheads. Please see Approved plan.</b>		<b>STIFFENERS.</b>		
	Plating Thickness.	VERTICAL.		HORIZONTAL.
		Scantlings.	Spacing.	Scantlings.
MIDSHIP BULKHEAD, Upper 'tween decks	115	.26	5x3x.30A	27-29
" " Second	115	.32	5x3x.30A	31
" " Third			6x3x.36BA	
" " Holds	115	.52-.34	12x3x.46	30-31
COLLISION " (in Hold)	167	.54	10x3x.46	24
AFTER PEAK " "	11	.70	8x3x.36BA	24

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....	/			
STEM .....	F.S. 10 1/2 x 2 1/2		Lanarkshire Stl Co.	
STERN FRAME .....	Shaft brackets C.S.	See plan.	Kobe Steel Works.	
RUDDER—A x D .....	938	"	Kawasaki Dkyd. Kobe.	
Speed of Vessel .....	14 knots.			
RUDDER mainpiece at head .....	F.S. 14"	"		
" " heel .....	" 11"			
" how constructed .....	Semi-balanced, stream line, forged steel main piece and C.S. arms.			
Outer plates .....	.50			
double centre plate .....	1.16			
coupling, vertical or horizontal .....	Horizontal 35 1/2" dia.			

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

Open Hearth Process.

STEEL. Lanarkshire Stl Co. David Colville & Sons Ltd. Bolckow Vaughan & Co. Scottish Iron & Stl Co. Consett Iron Co. Steel Co of Scotland. Pease & Partners Ltd. Cargo Fleet Iron Co. Dorman Long Co. Cleveland Stl Wks. Vereinigte Stahlwerke A.G. Klockner-Werke A.G.

Has the Steel been tested as required by the Rules?

Yes.

Register Foundation

EQUIPMENT No. 49616.4												LETTER of		ANCHORS.					
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.				
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.							
953	1st Bower ...	83	0	16				60	0	0	0		Halls type	Kobe Stl Wks	Kobe 7-1-29 A.W.				
954	2nd „ ...	83	0	16				60	0	0	0		"	"	8-1-29 A.W.				
952	3rd „ ...	83	0	13				60	0	0	0		"	"	7-1-29 A.W.				
	Collective weight.	249	1	17								244-2-0		"					
956	Stream .....	25	0	24	6	3	1	24	19	1	14	25-0-0	Ordinary	"	" 7-1-29 A.W.				
CHAIN CABLES.												HAWSERS AND WARPS.							
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.	
	Length.	Diam.	Stations.	Break- ing.	Supplied.			Per Rule.		Length.					Diam.	Length.		Diam.	Length.
1655	308	2 9/16	7	116	1105-2-9	989-0-0	300	16	S.I.	Osaka	Osaka	25-9-29 YJ	TOWERS	130	5 1/2	88.0	130	6	S.W.
				163 3/8									HAWSERS & WARPS	2-100	8		2-100	8	
														2-100	8		2-100	8	
Iron Stream Chain or Steel Wire	120	4 1/2		65.50				120	5 1/2	S.W.				1-100	3 1/8	26.0	(S.W.)		

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.				Length and Size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.	Breaking Test of Steel Wire.	Length and Size per Table 53.					
	Length. Diam.	Stain- Break- ing.	Supplied.	Per Rule.			Length. Diam.					Length. Cir.	Tons.	Length. Cir.					
1655	308 2 1/2	116 1/2	1105-2-9	989-0-0	300	2 1/8	300	S.L.	Osaka Chain Wks.	Osaka 25-9-29 YJ	TOWERS	130 5 1/2	88.0	130	6				S.W.
												2-100	8	2-100	8				
												2-100	8	2-100	8				
												1-100	3 1/2	26.0	(S.W.)				
Iron Stream Chain or Steel Wire	120 4 1/2	65.50					120 5 1/2	S.W.											

Steering Gear, Steam
Brown Bros Electro Hydraulic.
Steering Gear, Hand
/

Boats
6-30 ft Lifeboats- Open.
6-30 ft " Decked.
6-28 ft " Open.
6-26 ft " Decked.
6-26 ft " Open.

Clarke Chapman & Co.
Windlass
Electric Windlass.

Steering Chains, Size and Test
/

Ceiling in Holds, thickness and material
2 1/2" Pine laid on
2" Pine battens.
Cargo Battens, thickness, material and spacing
6" x 2" not more than 8" apart.

Cargo Hatchways.-(Upper Deck)
Plates and Angles & wood covers. Thickness of Hatches
3" O.Pine.

Size of No. 1 Hatchway (Forward)
20'3"x16'0"
No. 2
27'6"x18'0"
No. 3
16'6"x18'0"
No. 4
24'9"x18'0"
No. 5
19'3"x16'0"
No. 6
/

Number of Shifting Beams
No.1-3. No.2-5. No.3-3. No.4-4. No.5-3.
NAGASAKI WORKS, MITSUBISHI ZOSSEN KAISHA, LTD.

Builder's Signature
J. Motora
GENERAL MANAGER.

GENERAL DECLARATION
The vessel has been built in accordance with the Rules and Approved plans.
The materials and workmanship are good.
The Freeboard has been verified and the Freeboard Marks have been "cut in" on the vessel's side.
The Fore & Aft Peak Tanks, Double bottom tanks, Fuel oil tanks, at side of tunnels, & ford. of E.Rm. W.tanks, Weather decks and gutterways and O.T. & W.T. Bulkheads have been satisfactorily tested.
Note:- Vessel has Criuser stern. Sister vessel:- M.V. "Buenos Aires Maru" Nagasaki Rpt. No.1700.
Plans sent under separate cover of:- Midship Section, Construction, Profile & Deck (2 in No.) O.T. & W.T. Bulkhead. Pillars, Pillar Girders. Stern frame & Cut up casting. Shaft Bracket. Rudder. Air, Sounding pipe & Pumping arrangement. and Steel Invoices.

The amount of Entry Fee ..... ¥ 110:00:
Special Survey Fee.... ¥ 6610:00:
Freeboard. ¥ 225:00
Expenses, if any £ 10:00(Kobe)
Ref.Cargo space.¥50:00

Fees applied for,
14. 5. 1930
Received by me,
23. 7. 1930

I am of opinion the Vessel should be Classed
+100A1
with freeboard.

State whether the Vessel has been built under Special Survey
Yes
Signature
George Anderson
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to
Nagasaki.
Date of issue
1/7/30

Committee's Minute,
FRI. 20 JUN 1930
Character assigned
+100A1
with freeboard
+ L.Mc. 5,30
D.B. 120 lb.
C.L.

Lloyd's A.R.C.P.

© 2020
Lloyd's Register
Foundation

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

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

1st Bower	48-1-12	A.W.	953.	6-11-28.
2nd "	48-0-18	"	954.	18-10-28.
3rd "	48-1-16.	"	952.	30-10-28.
Stream.	23-1-22.	"	956	2-10-28.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop / ft., R.Q.D. / ft., Bridge **79.75** ft., Forecastle **51.25** ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated /

No. and Material of Decks (this information is to be given as it should appear in the Register Book) **3 Dks (stl-u-ws).**

Official No. **35928** ; Signal Letters **V.F.N.Q.** Is bottom of Vessel coated with cement if not give particulars of composition **Fore & Aft Peak tanks. F.W.tanks, Cofferdams and wells cement washed. Fuel oil tanks coated with oil.**

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	101.75	174.03	Fore peak tank,	24.5	144.27
Double bottom, under Engines and Boilers,	/	/	After peak tank,	18.0	118.88
Double bottom, if under Engines only,	85.25	558.01	Deep tank, aft, <b>FWP &amp; S sides (62-68) Total</b>	16.5	340.42
Double bottom, if under Boilers only,	/	/	Deep tank, forward <b>FO tank P&amp;S (93-100) "</b>	19.25	611.72
Double bottom, forward,	188.0	717.10	Other tanks, if fitted, <b>Tunnel side F.O. tank</b>	88.0	733.88
Total capacity of double bottom		1449.14	<b>(P&amp;S) 29-61. Total.</b>		

\* The wells are not to be included in the lengths of the tanks.  
375.00

Order for Special Survey No. **86**

Date **11th April 1928**  
**LONDON.**

Dates of Surveys held while building

**1929.**  
May 16.20.24.28.30.31 June 3.6.10.18.19.25.29 July 3.11.20.31 Aug 7.8.9.  
16.19.22.23 Sep 4.7.10.13.16.18.21.24.25.26.27 Oct 1.3.5.11.18.22.25.26.  
28.30.31 Nov 4.5.7.9.13.18.19.27.29 Dec 2.5.6.7.19.20.  
**1930.** Jan 13.16.28. Feb 6.10.18 Mar 5.11.12.27 Apr 5.10.12.14.21.22.24.  
May 5.13.14.

Total No. of Visits **81.**