

## STEEL STEAMER or MOTORSHIP.

Received at London Office 18 AUG 1954

State if Report has been sent on the Freeboard of the Vessel yes

State if Report is sent on the Machinery of the Vessel yes

Date of completion of report 10th August 1954

Port of Rio de Janeiro

No. 5920

Survey held at Rio de Janeiro

Date First Survey 9th January 1951

Last Survey 10th August

19 54

On the (State of Machinery fitted Aft and if Single, Twin or Triple Screw) Tw. Sc. steamer "RIO GUADIANA" (machinery aft)

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

Special Type

State Type of Erections Flush deck

TONNAGE under Tonnage Deck

CLASS +A-

State if with freeboard as condition of Class yes

Built at Port Glasgow - completed at Rio de Janeiro

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a)

L 330ft

Launched 13.6.54 Yard No. 1011

Total

Breadth (greatest moulded)

B 54ft.

Builders Lithgows Ltd. P. Glasgow.

Gross Tonnage

4033

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 27ft.

Owners E.G. Fontes e Cia.,

Register Tonnage

1st Longitudinal Number (L x D) =

Managers

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

## REGISTERED DIMENSIONS.

FEET.

Length

Framing Depth "d," at middle of length. See Sec. 3 (1d)

Breadth

Proportions—Depth to Length—Uppermost continuous deck to top of keel

Depth

Braught Moulded

16-08

Residence

Port of Registry Rio de Janeiro

If surveyed while building, afloat, or in dry dock

Completing- Afloat &amp; in Drydock

## 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			Bracket Floors, Frame	4 4 3/8	✓
" " from 3/4 length amidships to Collision bulkhead	as		" " Reversed Frame	4 4 3/8	✓
" " in peaks	per		" " Vertical Struts	4 4 3/8	✓
IDE FRAMING.			Centre Girder, depth and thickness amidships	36"x1 1/2"	✓
Frame Amidships, Angle, [ or [	Greenock		" " top Angles	6x4x1 1/2 (double)	✓
" " Extends up to	Report	✓	" " bottom Angles	3x3x15lbs	✓
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	One 3/8	✓
" " Extends up to	No 23110		Margin Plate depth (excl. of flange) and thickness	Connected	✓
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	to	
Frames in Uppermost Continuous 'tween Decks, Angle, [ or [			" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	Tankside	
" " Second 'tween Decks, Angle, [ or [			" " Gussets, spacing and scantling abaft 1/2 len. from stem	by	
" " Third " " " "			" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	3 x 3 x 3/8	✓
" " from 1/2 len. for'd. to 15% len. from Stem			Tank Side Brackets, height above base line at toe of Frame and thickness		
" " in Peaks, Angle or [			INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships			Breadth and thickness of Middle Line Strake	48 x 3/8	✓
State if Frame Joggled			Thickness of remainder in Holds	3/8	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?			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?	no d.b. in ER or BR.	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?			BEAMS.		
DOUBLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, [ or [	Greenock	
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, [ or [	Report	✓
Height of Brackets at side above base line at toe of frame			Spacing		
Middle Line Keelson, on Floors, Angles, [ or [			Second Deck, amidships, Angle, [ or [		
" " Through Plate or Intercostal Plate			Spacing		
" " Foundation Plate on Floors			Third Deck, amidships, Angle, [ or [		
" " Flat Plate Keel Angles			Spacing		
Keelsons, No. each side			Fourth Deck, amidships, Angle, [ or [		
" " thickness of Intercostal Plate			Spacing		
" " Angles			Poop Deck, Angle, [ or [		
DOUBLE BOTTOM.			Spacing		
1 Floors, thickness and spacing Fr. 17-32 5/8"x 6ft		✓	Bridge Deck, Angle, [ or [		
" " Are Frame and Reversed Frame joggled?		no	Spacing		
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, [ or [		
" " breadth and thickness at margin plate			Spacing		



## 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>	As		Stringer Plate, breadth and thickness in way of Bridge .....	As	
„ in 'tween Decks, Size and Spacing.....			Thickness of Plating abreast Deck openings in way of Wells .....	per	
„ „ „ „ „	per		Thickness of Plating abreast Deck openings in way of Bridge .....	Greenock	
„ in Holds „ „	Approved		Thickness of Plating within line of openings...	Report	
„ „ „ „ „	Plan.		If Sheathed, material and thickness .....		
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....		
Plating, thickness of .....			If Plated, state thickness.....		
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	As		If Plated, state thickness .....		
„ „ „ „ in way of Bridge	per		<b>Poop Deck.</b>		
„ Angle in Wells .....			Stringer Plate, breadth and thickness .....		
Thickness of Plating abreast Deck openings in way of Wells .....	Greenock		Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings in way of Bridge .....			<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...			Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness .....			Plating, Sheathing, material and thickness ...		
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells...	Report		Stringer Plate, breadth and thickness.....		
			Plating, Sheathing, material and thickness ...		

## SHELL PLATING.

[illegible]

## WATERTIGHT BULKHEADS.

Total No. of **W.T. BULKHEADS** in Vessel—

Extending to Upper Deck (Sec. 3 c) 5

„ Deck next below \_\_\_\_\_

As per Rule \_\_\_\_\_

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
<b>KEEL, Bar</b> .....				
<b>STEM</b> .....				
<b>STERN FRAME</b> {				
Propeller Post .....	AS			
Rudder .....				
<b>Speed of Vessel</b> .....		per		
<b>RUDDER—Type</b> .....				
" A x D .....				
" Diam. of head .....			Greenock	
" Mainpiece at top pintle .....				
" " heel .....				
" how constructed .....			Report	
" double or single plate .....				
" coupling, vertical or .....				
" horizontal .....				

			STIFFENERS.				
			Plating Thickness.	VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKH'D,</b>	Upper tween decks	7/16	6x6x7/16	24	12x3/8 plate	7x6x7/16	7ft
"	Second "		Toe E.W.				
"	Third "		to Bhd.				
"	Holds .....	7/16	-do-	-do-	-do-	-do-	-do-
<b>COLLISION</b>	(in Hold) .....						
<b>AFTER PEAK</b>	.....		Greenock Report				

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)  
Greenock report  
Has the Steel been tested as required by the Rules? yes







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.)

This is a sister vessel to the "RIO MINHO", "RIO TEJO", "RIO MONDEGO" and "RIO DOURO", (Rio Rpts. numbers 4553, 4667, 4857 and 5179)

The following "as built" plans are enclosed herewith:-

Midship Section, Profile and Decks and Pillars and Girders.

These have been modified in accordance with the Approved plans as follows:-

Tween deck hatches - No 2 11 beams - 19" deep - spaced 3' 4" width 12' 0".

No 3 9 beams - 19" deep - spaced 3' 2" width 12' 0".

A new hatch No 1 - 8' 0" x 12' 0" fitted forward. The widths of Nos 1, 2 and 3 hatches are now 12' 0" and the stringer plate doubling has been dispensed with.

One additional stepped bulkhead has been erected at Frs. 24/25. The bulkhead and deck in way is made watertight.

The hatch coamings have been modified as requested. The horizontal stiffener is B.A.

The stern has been stiffened in accordance with the plan forwarded.

The large ventilators have been dispensed with.

The bow doors have been plated up and an efficient forepeak bulkhead fitted.

Ceiling has been fitted in the square of the hatches.

The CL bulkhead in forward ballast tank has been stiffened by 3 - 5"x5"x3/8" longtdl. angles bracketed at ends.

The deck below the Kingposts has been doubled and bracketed.

Cargo battens fitted in the lower holds in way of the side oil tanks.

PARTICULARS OF ELECTRIC WELDING (if employed) As per Greenock Report - and Hatchways and Beams, Double bottom tank, forward, and stiffening inside same, W.T. bulkheads in holds and other minor items - using approved electrodes.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Longitudinal Framing, Fitted for Oil Fuel F.P. above 150°F. Flat cruiser stern, Machinery Aft.

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

1st Bower  
2nd "  
3rd "

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

Official No. Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length (Circ. 1708)

No. and Material of Decks 3 - steel

Parts of Bottom of Vessel coated with cement or approved composition Bottom throughout coated with Bitumastic.

Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

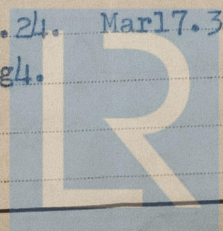
Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Cap. Tons.
Double bottom, aft,			Forepeak tank, In 4 compartments (Frs 7-17)	40	590
Double bottom, under Engines and Boilers,			Afterpeak tank, Ford. side tanks p. & s.	24	198
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No.

Date.

Dates of Surveys held while building

1951) Jan. 9. Dec. 20. 1952) May 21. Oct 24. Dec 3. 1953) Mar. 26. Apr 13. Dec 18. 22. 29. 1954) Jan 8, 15. 27 Feb 10. 24. Mar 17. 30. Apr 17. 14. 15. 17. 22. 24. May 26. June 15. 25. July 2. 12. 27. 28. Aug 4.



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