

## STEEL STEAMER or MOTORSHIP.

Received at London Office

6 SEP 1927

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

August 11<sup>th</sup> 1927 Port of TriesteNo. 7672

Survey held at

Mongalcone

Date First Survey

June 24<sup>th</sup> 1926

Last Survey

August 11<sup>th</sup> 1927.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Twin Screw M.V. "ARARANGUA". Machinery amidships

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

"With freeboard"State Type of Erections Poop & 7' clc.

TONNAGE under

3699.0CLASS South American

State if with freeboard as condition of Class

Yes.

Built at

Mongalcone

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

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

L 370.Launched March 31<sup>st</sup> 1924 Yard No. 175.

Breadth (greatest moulded)

B 53.5.Builders Santiere Navale Triestino

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

D 27.33.Owners Lloyd Nacional Societate Anonima.

1st Longitudinal Number (L x D).....

= 10,113.

Managers

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

2nd Numeral L x (B + D).....

= 29,908.

Residence

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

16.15Port of Registry Rio de Janeiro.

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

13.53.

If surveyed while building, afloat, or in dry dock

Do. Long Bridge to top of keel

Draught Moulded

18' 1"While building.

## 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.
8. Spacing amidships	<u>67.5.</u>		Bracket Floors, Frame	<u>150 70 8.</u>	
" from 1/4 length to Collision bulkhead	<u>67.5</u>		" " Reversed Frame	<u>150 70 8</u>	
" in peaks	<u>61.0.</u>		" " Vertical Struts	<u>Channel 240 85 10/16</u>	
PLATING.			Centre Girder, depth and thickness amidships	<u>968 x 12.</u>	
Amidships, Angle [ or ]	<u>200 85 11.5.</u>		" " top Angles	<u>75 75 12</u>	
" Extends up to	<u>Upper 8"</u>		" " bottom Angles	<u>100 100 13</u>	
Red Frame Amidships, Angle	<u>✓</u>		Side Girders, No. each side and thickness	<u>one. 3.5.</u>	
" Extends up to	<u>✓</u>		Margin Plate depth (excl. of flange) and thickness	<u>940 x 11.</u>	
of Framing Girder	<u>200</u>		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	<u>90 90 9</u>	
in Uppermost Continuous 'tween Decks, Angle [ or ]	<u>200 85 11.5</u>		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	<u>130 130 12</u>	
" Second 'tween Decks, Angle [ or ]	<u>at alternate frames</u>		" " Gussets, spacing and scantling abaft 1/4 len. from stem	<u>Every 3'</u>	
" Third " " "	<u>150 70 9.5</u>		" " Gussets, spacing and scantling forward 1/4 len. from stem	<u>Every</u>	
in Peaks, Angle [ or ]	<u>150 70 8</u>		Tank Side Brackets, height above base line at toe of Frame and thickness	<u>156 7 x 9.</u>	
and Spacing of Rivets through Frame and Shell Plating amidships	<u>3/4 spaced 5"</u>		INNER BOTTOM PLATING.		
Frame Joggled	<u>No.</u>		Breadth and thickness of Middle Line Strake	<u>1250 x 12.</u>	
ARRANGEMENTS (Sec. 7), state system and particulars	<u>Deep frames 230 90 12 B.A.</u>		Thickness of remainder in Holds	<u>10</u>	
HENING OF BOTTOM FOR	<u>Double metal frames. 2 1/2 ft. intercostals</u>		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?	<u>Yes.</u>	
b. State Particulars	<u>Bottom plating to coll. Red midship thk.</u>		BEAMS.		
OTTOM.			Uppermost Continuous Deck, amidships	<u>190 85 9.5</u>	
Depth and thickness at mid-line in Holds	<u>✓</u>		" " in way of Bridge, Angle, [ or ]	<u>✓</u>	
Height of Brackets at side above base line at toe of frame	<u>✓</u>		Spacing	<u>Every</u>	
Line Keelson, on Floors, Angles, [ or ]	<u>✓</u>		Second Deck, amidships, Angle, [ or ]	<u>200 85 11.</u>	
" " Through Plate or Intercostal Plate	<u>✓</u>		Spacing	<u>Every</u>	
" " Foundation Plate on Floors	<u>✓</u>		Third Deck, amidships, Angle, [ or ]	<u>✓</u>	
" " Flat Plate Keel Angles	<u>✓</u>		Spacing	<u>✓</u>	
sons, No. each side	<u>✓</u>		Fourth Deck, amidships, Angle, [ or ]	<u>✓</u>	
" thickness of Intercostal Plate	<u>✓</u>		Spacing	<u>✓</u>	
" Angles	<u>✓</u>		Poop Deck, Angle, [ or ]	<u>230 90 11.</u>	
OTTOM.			Spacing	<u>alternate</u>	
ors, thickness and spacing	<u>3.5 every 3'</u>		Prom. Bridge Deck, Angle, [ or ]	<u>130 65 8.5</u>	
" Are Frame and Reversed Frame joggled?	<u>No.</u>		Spacing	<u>alternate</u>	
Floors, breadth and thickness at middle line	<u>725 x 8.5.</u>		Forecastle Deck, Angle, [ or ]	<u>230 90 11.</u>	
" breadth and thickness at margin plate	<u>725 x 8.5.</u>		Spacing	<u>alternate</u>	



## PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.....</b>	Two	
"    in 'tween Decks, Size and Spacing.....	230x10 190x10 widely spaced	
"    "    "    "    "    "	✓	all plane
"    in Holds    "    "    "	318x16 305x13 widely spaced	
"    "    "    "    "    "	✓	
<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	1370 x 17 Port 16 Str	14 a normal direct casing
"    "    "    "    in way of Bridge	160 160 16 Port 140 140 16 Str	back space
"    Angle in Wells .....	Port 8th 14 & 11	
Thickness of Plating abreast Deck openings in way of Wells	11.5 to 9	(re plan)
Thickness of Plating abreast Deck openings in way of Bridge	10.5 to 8	
Thickness of Plating within line of openings...	54" Year 2 was exposed 50" W.P. elsewhere	
If Sheathed, material and thickness .....	1150 x 15.5 Port 1150 x 12.5 Str	re plan (back space)
<b>Second Deck.</b>		
Stringer Plate, breadth and thickness in Wells		
Stringer Plate, breadth and thickness in way of Bridge		
Thickness of Plating abreast Deck openings in way of Wells		
Thickness of Plating abreast Deck openings in way of Bridge		
Thickness of Plating within line of openings...		
If Sheathed, material and thickness .....		
<b>Third Deck.</b>		
Stringer Plate, breadth and thickness.....		
If Plated, state thickness.....		
<b>Fourth Deck.</b>		
Stringer Plate, breadth and thickness.....		
If Plated, state thickness .....		
<b>Poop Deck.</b>		
Stringer Plate, breadth and thickness .....	860 x 8.5	
Plating, Sheathing, material and thickness .....	7.55" Year 2	
<b>Prom. Bridge Deck.</b>		
Stringer Plate, breadth and thickness.....	1800 x 9	
Plating, Sheathing, material and thickness .....	6.55" Year 2	
<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness.....	860 x 8.5	
Plating, Sheathing, material and thickness .....	7.65" Year 2	

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	yes.	SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.							Diam.	Spacing cr. to cr.	
FLAT PLATE KEEL .....	1222	16.5	14.5	14.5	✓	✓	Double	7/8	3 3/8	3	7/8	3 1/2	Strapped
„ DBLG. (if any)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BOTTOM PLATING, No. of Strakes .....	4	12.5	10.5	11.5	✓	✓	Double	3/4	3.	3	3/4	2 5/8	Strapped
BILGE PLATING, No. of Strakes .....	1.	12.5	10.5	11.5	✓	✓	Double	3/4	3.	3	3/4	2 5/8	Strapped
SIDE PLATING, No. of Strakes .....	3.	12.5	10.0	11.0	✓	✓	Double	3/4	3	3	3/4	2 5/8	Strapped
UPPER DECK, Sheer-strake in Wells .....	1270	17.5	10.0	10.0	✓	✓	Double	7/8	3 3/8	4	7/8	3 1/2	Strapped
UPPER DECK, Sheer-strake in Bridge ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STRAKE BELOW Sheer-strake in Wells .....	1272	15.0	10.0	10.0	✓	✓	Double	7/8	3 3/8	4	7/8	3 1/2	Strapped
STRAKE BELOW Sheer-strake in Bridge ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
POOP SIDE PLATING .....				9.5	✓	✓	Single	3/4	3	1	3/4	2 5/8	Strapped
BRIDGE SIDE PLATING ...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FORECASTLE SIDE PLATING			10.	✓	✓	✓	Single	3/4	3.	1	3/4	2 5/8	Strapped

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 6.

„ Deck next below 1.

As per Rule 6. 1/2

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings	Spacing.
<b>MIDSHIP BULKH'D</b> , Upper tween decks		6.5	130x65	675	✓	✓
"	" Second "		7.584			
"	" Third "		—			
"	" Holds .....	10-8	250x90x	685		
<b>COLLISION</b>		" (in Hold) ✓	11.5			
<b>AFTER PEAK</b>		" ✓	42-30	8x38x4325x26	Semi-box	
	" "		13.0			
	" "		46-30	9x33x44	24	
			8.0			

## 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> .....	Forging	2 1/2 x 5 1/2	Wittenberg	225 x 58
<b>STERN FRAME</b> {	Propeller Post	Top Forged	✓	
	Rudder	Bottom cast	without Berg	
<b>RUDDER—A x D</b> .....		4 3/4		
<b>Speed of Vessel</b> .....		not exceeding 15 knots		
<b>RUDDER</b> mainpiece at head		10 5/8"		
" " heel		8 1/4"		
" how constructed		Built up		
" double or single plate		Single . 98"		
" coupling, vertical or horizontal		Horizontal		

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Witkowitzer Bergbau- & Eisenwerk Montanengesellschaft, Donawitz Basic Open Hearth.

Has the Steel been tested as required by the Rules? Yes.



EQUIPMENT No. 32485												LETTER y✓		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.			
332.	1st Bower	60	1	26				48	13	0	0.	60-0-0	Skull's Stockless	Pilsen 7-9-26 C.R.H.				
331.	2nd "	60	0	3				48	10	0	0.	60-0-0	"	"				
335.	3rd "	52	1	16				43	19	0	0.	50-2-0	"	"				
	Collective weight.	172	3	17								170-2-0						
329.	Stream	16	3	20				18	5	0	0.	16-1-0	admiralty	"				
334	4th Bower	29	3	24				28	13	0	0.		Skull's Stockless	"				
CHAIN CABLES.																		
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.	Statu- tory.	Break- ing.	Supplied.	Per Rule.			Length.	Diam.								
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Fathoms.	Ins.
338	270	2 7/8	86 1/2	120 5/8	660-2-21.	645-3-0.			270	2 3/8	Stud Link	Bassoli	neghom 16 S-270g	TOWLINE...	120	4 3/4	120	4 3/4
Iron Stream Chain & Steel Wire	90	1 5/8	34	51	87-2-24.	72-0-0.			90	1 7/8	"	"	D: D: a g	HAWSERS & WARPS	220	2 3/4	220	2 3/4
														"	220	2 1/2	220	2 1/2

#### CHAIN CABLES.

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.	HAWERS AND WARPS.			
	Length.	Diam.		Supplied.	Per Rule.						Material.	Length and size supplied.	Breaking Test of Steel Wire.	Length and size per Table 53.
338	270	2 3/8	86 1/2	120 5/8	660-2-21.	645-3-0.	270	2 3/8	Skull's	Regdon 16-5-27 1/2	TOWLINE	120	4 3/4	4 3/4
Iron Stream Chain	90	1 3/8	34	51	87-2-24.	72-0-0.	90	1 3/8	"	"	"	270	2 3/4	2 3/4

Steering Gear, Steam *Hydro-Electric Brown Bros.* Steering Gear, Hand *Yes*

Boats *4 lifeboats 2 Dumphries* Steering Chains, Size and Test *70 lb motor* Windlass *Electric Emerson Walker*

Ceiling in Holds, thickness and material *65" L. W. Pine* Cargo Battens, thickness, material and spacing *50" L. W. Pine. 230" L.*

Cargo Hatchways. (Upper Deck) *Steel plates and angles.* Thickness of Hatches *65" L.*

Size of No. 1 Hatchway (Forward) *5,400 x 4,570 No. 2 5,400 x 7,700 No. 3 3,370 x 1,590 No. 4 4,050 x 1,590 No. 5 5,400 x 4,570 No. 6 3,810*

Number of Shifting Beams *and for Fore and Afters No. 1-3: No. 2-3: No. 3-1: No. 4-2: No. 5-3.*

**Cantiere Navale Triestino**

Builder's Signature

*M. P. Constantini*

**GENERAL DECLARATION** This vessel has been built in accordance with the approved plans and the Society's Rules and Regulations for the intended class.

The workmanship and materials are good.

All double bottom tanks, peaks, fresh water tanks, weather decks and waterways have been tested as required by the Society's Rules.

The freeboard has been verified and set in on the vessel's sides.

The following approved plans are enclosed for reference:-

Midship Section, Profiles Decks, after Peaks, Stemframes Rudder, Shaft Brackets, Double bottom, shell expansion, Construction Forward, Hatches, Steering gear, Tunnel & W. Tanks, Motor seating (2 plans), Motor casing, stem, superstructures (4 plans) pillars and girders (6 plans.) 25 plans.

These plans should be returned to this Office for sister ships building.

6 forging certificates enclosed.

P.T.O.

The amount of Entry Fee *£ 824 -* Fees applied for, *30 8. 1927*

Special Survey Fee *£ 32,816 -* Received by me, *26.9.1927*

Travelling Expenses, if any *£ 308.00* *Freeboard 900 expenses 300.*

I am of opinion the Vessel should be Classed *+100A1 "With Freeboard"*

*South American Coasting*

*with limiting ports Bahia Blanca and Trinidad*

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

Signature *M. P. Constantini* *John Bartlett*

*Surveyor to Lloyd's Register of Shipping.*

Certificate to be sent to *retained in London.*

Date of issue *17/10/27* *Stewart Campbell Esq.*

Committee's Minute *FRI. 16 SEP 1927*

Character assigned *- 100A1*

*with freeboard*

*South American Coasting Bahia, Trinidad*

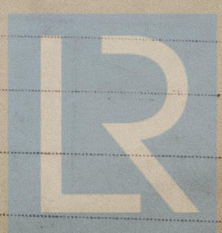
*Lloyd's Assoc* *Thurs 8 27 09*

*write out* *Oil Engines 50 120/16*

*- 100A1*

*- 100A1*

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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 the Plans should be embodied.)

The following plans as built are enclosed:—Midship Section, Profile and Deck plans & 3 plans.  
A Report form B, concerning fire damage, accompanies this Report.

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

1st Bower	Head.	38-0-10.	C.R.H.	738.	5-8-26.
	Shank.	18-0-21.	"	744.	28-4-26.
2nd "	Head	37-2-22.	"	735.	28-7-26.
	Shank	18-0-13.	"	746.	28-7-26.
3rd "	Head	33-3-1.	"	751.	5-8-26.
	Shank	15-0-10.	"	757.	28-7-26.
4th "	Head	18-3-17.	"	762.	5-8-26.
	Shank	8-3-9.	"	763.	28-7-26.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 34 ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 61 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). 2 DECKS: STEEL.

Official No. ; Signal Letters

Is bottom of Vessel coated with cement No. if not  
particulars of composition: 4, 6 & 7 d. & 1 inks, peaks & bilges—Bitumastic. Remainder of d. & b. tanks carry oil fuel and not coated.

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	98	223	Fore peak tank,	19.	1
Double bottom, under Engines and Boilers, Motors	38	190	After peak tank,	20.	1
Double bottom, if under Engines only,			Deep tanks, between tunnels	60.	1
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	164	500	Other tanks, if fitted,		
	Total capacity of double bottom	913.	(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No. 130

Date 19th March 1926

Dates of Surveys held while building

1926 June 24, July 1, 5, 9, Sep 1, 3, 7, 9, 13, 17, 17, 23, 24, 27, Oct 1, 7, 8, 15, 19, 22, 26, 27  
Nov 1, 18, 29, Dec 1, 1, 13, 14, 14, 15, 15, 31/927 Jan 10, 24, 24, 28, Feb 2, 3, 7, 9, 15, 16, 21,  
28, Mar 4, 4, 8, 9, 11, 12, 17, 21, 22, 23, 29, 29, 30, 31, Apr 1, 4, 4, 6, 6, 11, 12, 19, 20, 26,  
28, 29, May 5, 6, 6, 12, 17, 18, 19, 25, 27, 30, 30, June 2, 8, 13, 22, 29, July 6, 7, 14, 14, 18,  
28, 29, Aug 3, 4, 7, 8, 11

Total No. of Visits

Has the Steel been tested as required by the Rules? Yes.