

## 3 Decks.

## IRON OR STEEL STEAMER.

THUR. 12 SEP 1907

Received at London Office

Date of completion of report

11th September 1907

Port of

SUNDERLAND

Survey held at

SUNDERLAND

Date, First Survey

31st January 1907

Last Survey

29th August

1907

On the

STEEL SCREW STEAMER "ARNELL"

now moored at

Rig SCHOONER

TONNAGE under

Tonnage Deck...

Do. between Tonnage Dk. and 3rd and 4th Dk.

Total under Upper Dk.

363.8/3

Do. of Poop

Do. of Bridge House (or House)

2.52

Do. of Forecastle

36.24

Do. of Houses on Dk.

62.68

Do. of excess of Hatchways

46.20

Do. above Crown of

26.38

Engine Room

3813.07

Less Crew Space

81.19

Less above Crown of

26.38

Engine Room

3705.50

TONNAGE FOR FEES

1220.18

Less Engine Room

44.75

Less Navigation Spaces

36.38

LESS WATER BALLAST SPACE ALLOWED

26.38

Register Tonnage

2433.37

THREE DECKED VESSEL.

CLASS 100 A.1

FEET.

Half Breadth (moulded)

24.6

Depth from upper part of Keel to top of Upper Deck Beams

28.94

Girth of Half Midship Frame (as per Rule)

49.35

deduct 7 feet

102.89

1st Number

7.00

Length on deck from after part of stem to fore part of

95.89

stern post

344

2nd Number

32916.16

Proportions—Breadth to Length

7.0

Depth to Length—Upper Deck to top of Keel

11.9

Main Deck ditto

Destined Voyage

BUENOS AIRES

If Surveyed while Building, Afloat, or in Dry Dock UNDER SPECIAL SURVEY

Master W. L. NEWTON

Year of appointment

Built at

SUNDERLAND

When built

1907

Launched 22 JUNE 1907

By whom built

J. L. THOMPSON &amp; SON

Owners

W. R. REESEA

Managers

D.

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

Residence

BELFAST

Port belonging to

SUNDERLAND

GTH on Deck

Feet.

Inches.

BREADTH

Feet.

Inches.

DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams

Feet.

Inches.

No. of Decks with flat laid

ONE

per Rule

344

0

Moulded

49

25

Do.

Do.

Do.

Main Dk. Beams

25

14

No. of Tiers of Beams

TWO

Dimensions of Ship per Register, Length

346

breadth

48.5

depth

25.35

Moulded depth, ft.

27

ins.

11 1/2

To Upper Dk.

Dk. Beam, Actual

11 1/4

ins.

## FRAMING.

NAME, Angles, or L, E or L Bars for length

amidships

Do. for 1/2 at each end

Do. in way of Double Bottoms at Solid Floors

at intermdt. Bkts.

acing of Frames from centre to centre

EVERSED FRAME, Angles

EEP FRAMING, depth of girder

DOORS, depth and thickness of Floor Plate

at mid-line for length amidships

thickness at the ends of vessel

depth at 1/2 the half breadth, as per Rule

height extended at the Bilges

LOORS &amp; BRACKETS in Cell Dble Bottoms

state if flanged (top &amp; bottom)

Spacing

ENTRE GIRDER, in Double bottom, depth

and thickness

Angles, Top

Bottom

SIDE GIRDERS, number on each side &amp; thickness

state if flanged (top and bottom)

Angles

MARGIN PLATE, depth (exclusive of flange)

and thickness

Angles to Outside Plating

Floors

Height of Floors at the Bilges

INNER BOTTOM PLATING, breadth and

thickness of Middle Line Strake

in Engine and Boiler space

Remainder in Holds

BEAMS, Upper Deck, Single Angle, Bulb

Angle, Plate or Tee Bulb

Angles on upper edge

Spacing

BEAMS, Middle Deck, Single Angle, Bulb

Angle, Plate or Tee Bulb

Angles on upper edge

Spacing

BEAMS, Lower Deck, Single Angle, Bulb

Angle, Plate or Tee Bulb

Angles on upper edge

Spacing

BEAMS, Hold, or Orlop, Plate or Tee Bulb

Angles on upper edges

Spacing

BEAMS, Poop Deck, Angle, Bulb Angle, Plate

or Tee Bulb

Angles on upper edge

Spacing

BEAMS, Bridge Deck, Angle, Bulb Angle, Plate

or Tee Bulb

Angles on upper edge

Spacing

BEAMS, Forecastle Deck, Angle, Bulb Angle,

Plate or Tee Bulb

Angles on upper edge

Spacing

PILLARS, In 'tween Deck, size and spacing

Hold

Quarter 'tween Dks.

in Hold

WEB-FRAMES, In Fore Body, No. and spacing

brdth. &amp; thickness

No. of Side Stringers

WEB-FRAMES, In E. &amp; B. Space, No. &amp; spacing

brdth. &amp; thickness

WEB-FRAMES, In After Body, No. and spacing

brdth. &amp; thickness

No. of Side Stringers

Size of Angles or Tee Bars to Web-Frames

BULKHEAD PLATES to Stringers between

Frames, depth and thickness

Inches in Ship

Inches in Ship

Inches in Ship

Inches per Rule

Inches per Rule

Inches per Rule

Inches per Rule

Inches per Rule

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## FORGINGS or CASTINGS.

KEEL, Bar or Side Plates, depth and thickness

STEM, moulding and thickness

STERN-POST for Rudder do. do.

for Propeller

MAIN PIECE of Rudder, diameter at head

do. at heel

RUDDER, how constructed

Can the Rudder be unshipped afloat?

YES

KEELSONS &amp; STRINGERS.

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

Intercoastal Plate, for

Attached to outside Plating with Angle

BILGE KEELSON, Angles

Bulb or Plate above floors, for

Intercoastal Plate for

Attached to outside Plating with Angle

BILGE STRINGER, Angles

Bulb Plate for

Intercoastal Plate for

Attached to outside Plating with Angle

SIDE STRINGER Angles

Bulb or Intercoastal Plate, for

Attached to outside plating with Angle

Upper Deck Stringer Plates, br'dth &amp; thickness

Angle on ditto

Tie Plates, outside Hatchways

Deck, \* Iron &amp; Steel, for

Wood Deck, Material &amp; thickness

Middle Deck Stringer Plate, br'dth &amp; thickness

Angles on ditto, No.

Tie Plates outside Hatchways

Diagonal Tie Plates, No. of pairs

Deck, \* Iron or Steel, for

Wood Deck, Material &amp; thickness

Lower Deck Stringer Plate, br'dth &amp; thickness

Angles on ditto, No.

Tie Plates, outside Hatchways

Deck, \* Material and thickness

Hold, or Orlop Stringer Plate, br'dth &amp; thkn's

Angles on ditto, No.

Tie Plates outside Hatchways

Deck, Material and thickness

Poop Deck Stringer Plate, breadth &amp; thickness

Angle on ditto

Tie Plates

Deck, Material and thickness

Bridge Deck Stringer Plate, br'dth &amp; thickness

Angle on ditto

Tie Plates

Deck, Material and thickness

Forecastle Deck Stringer Plate, b'dth &amp; th'kns

Angle on ditto

Tie Plates

Deck, Material and thickness

BULKHEADS.

Number in Vessel

Thickness

STIFFENERS.

Horizontal

Vertical

Single or Double Frames

Height up.

W. T. BULKHEADS

PARTITION

LONGITUDINAL

Are the outside Plates doubled two spaces of Frames in length?

Are the Stave Valves and Watertight Doors in efficient working order?

YES



PLATING.

AN IN SHIP.

PER RULE OR AS APPROVED.

EDGES.

RIVETING.

STRAKES.

FLAT PLATE KEEL.

GABBOARD OF A STRAKE.

State actual thickness in way of Double Bottom.

DOUBLING OF FLAT PLATE KEEL.

Length and thickness of Bilges.

Length and thickness of Sheerstrakes.

Length and thickness of Strake below.

POOP SIDES.

BRIDGE SIDES.

FORECASTLE SIDES.

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.?

STEEL PLATES: 5" DURHAM & CO., CONSETT, I. C., BOLCHOW & CO., &c.

IRON PLATES: J. HILL & CO. MOULDINGS, TYLACK & CO.

Has the Steel been tested as required by the Rules? YES

FRAMES extend in one length from CENTRE LINE TO MARGIN PLATE & THENCE TO GUNWALE.

REVERSED FRAMES on floors and frames extend from CENTRE LINE TO MARGIN PLATE.

MASTS, SPARS, &c.

DIAMETER AND THICKNESS.

LOWER MASTS.

Fore Main.

Topmasts, Yards and Remainder of Spars.

Rigging, Material and Size, Shrouds.

Sails.

Suit of.

EQUIPMENT No. 37198 LETTER W.

Number of Certificate.

Anchors.

WEIGHT, EX. STOCK.

TEST, PER CERTIFICATE.

WEIGHT REQUIRED BY TABLE 22.

Description of Anchor.

Makers.

Where and when tested.

CHAIN CABLES.

Length and size supplied.

Test per Certificate.

WEIGHT OF CHAIN CABLE.

Length and size supplied.

TEST, PER CERTIFICATE.

WEIGHT REQUIRED BY TABLE 22.

Description.

Makers of Cables.

Where and when tested.

HAWERS AND WARPS.

Material.

Length and size supplied.

TEST, PER CERTIFICATE.

WEIGHT REQUIRED BY TABLE 22.

Description.

Makers of Cables.

Where and when tested.

Boats.

Pumps, Number.

Windlass is BY EMERSON WALKER & THOMPSON.

Engine Room Skylights.—How constructed?

Coal Bunker Openings.—How constructed?

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c.

Cargo Hatchways.—How formed?

State size No. 1 Hatch (Forward).

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch.

Bulwarks, height above deck and description.

The above is a correct description.

Builder's Signature (Here only).

Surveyor's Signature.

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

pendence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case).

29.3.06, 9.10.06, 29.10.06, 26.10.06, 10.1.07

manSHIP. Are the butts of plating planed or otherwise fitted? PLANED & OVERLAPPED

Do the holes for riveting plate to frames, butt straps, or plate

liners between the frames and plates solid single pieces? JOGGLED PLATING

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? A FEW

all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? YES State results of tests SATISFACTORY

all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? YES State results of tests SATISFACTORY

ral Remarks (State quality of workmanship, &c.) THIS VESSEL HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS, THE

SECRETARY'S LETTERS DATED AS ABOVE STATED, AND OTHERWISE IN CONFORMITY WITH THE RULES. THE MATERIALS

AND WORKMANSHIP ARE GOOD THROUGHOUT.

THIS VESSEL IS A DUPLICATE OF THE S.S. EIR, THE SAME BUILDERS NO 451, EXCEPT

FOR 1/2 INCH DIFFERENCE IN MOULDED DEPTH (SEE SLD RPT NO 23228)

The Surveyor should state the Number of Report and Name of any Sister Vessel.

ARTICULARS FOR RECORD IN THE REGISTER BOOK.—Length of Poop 23.08 ft., R.Q.D. or Break — ft., Bridge Dk. 73.75 ft., F'castle 31.25 ft.

(In feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

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 D' (P' ST, P' IAN) 2 TBS BMS, DEEP FRAMING & WEB FRAMES, 3 D' RULE.

Official No. —; Signal Letters — State if Machinery is fitted aft NO

How are the surfaces preserved from oxidation? Inside PORTLAND CEMENT & PAINT. Outside PAINT.

ARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors.

Where Fitted.

\*Length.

Water Capacity.

Feet.

Tons.

Feet.

Tons.

Fore peak tank,

After peak tank,

Deep tank, aft,

Deep tank, forward,

Other tanks, if fitted,

(If necessary, furnish further information by sketch.)

Total capacity 757

State whether the above have been tested as required by the Rules. YES

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

Order for Special Survey No. 4599.

Date 2.10.06.

1904:—Jan: 31, Feb: 6.11.14, Mch: 4.15.18.20, Apl: 3.9.11, 14.15.22.26.29, May: — 2.3.8.

14.16.19.22.25.28.30, June: — 4.8.11.13.15.21, July: — 4.10.15.19.24, Aug: 7.14.27.29.

Fees applied for,

10.9.1907.

Received by me,

13/9/07

Travelling Expenses, if any £ : : :

State whether the Vessel has been built under Special Survey

I am of opinion this Vessel should be Classed + 100 A.1. STEEL L.A.B.C.P.

With, or without Freeboard, as condition of Class WITHOUT.

Committee's Minute

Character assigned

FRI. 13 SEP 1907

100 A.1 (SL)

Lloyds ascp + hmc 8.07

George Nicol

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