

Rpt. 5a.

REPORT ON BOILERS.

No. 25933

Received at London Office TUE. DEC. 9 - 1913

Date of writing Report 2-12-1913 When handed in at Local Office 3-12-1913 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey 15 April Last Survey 1-12-1913
 Reg. Book. on the Donkey Boiler for S/S "ANGLO BRAZILIAN". (Number of Visits 10) Gross 7486
 Master Richardson Built at Sunderland By whom built Shool Bros Ltd (No 381) When built 1913
 Engines made at Newcastle By whom made North Eastern Marine Engineering Co Ltd When made 1913
 Boilers made at Sunderland By whom made Macbald & Pollock Ltd (No 631) When made 1913
 Registered Horse Power Owners Nitrate Producers SS Co Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel James & Sons Ltd & Co
 (Letter for record (S)) Total Heating Surface of Boilers 1129 Is forced draft fitted No. and Description of

Boilers one single ended marine Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 31-7-13

No. of Certificate 3133 Can each boiler be worked separately Area of fire grate in each boiler 36 No. and Description of

safety valves to each boiler two direct spring Area of each valve 5.940 Pressure to which they are adjusted 123

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork 13" dia. of boilers 12'-0" Length 10'-1 1/2"

Material of shell plates steel Thickness 23 1/2" Range of tensile strength 28 1/2-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams W.R. long. seams W.B.S. T.R. Diameter of rivet holes in long. seams 1 5/8" Pitch of rivets 5 3/16"

Lap of plates or width of butt straps 10" Per centages of strength of longitudinal joint 82.6 Working pressure of shell by

rules 121 Size of manhole in shell 16"x12" Size of compensating ring 28"x26"x23" No. and Description of Furnaces in each

boiler 3 plain Material steel Outside diameter 3'-1 5/8" Length of plain part 7'-5" Thickness of plates 21"

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 154 Combustion chamber

plates: Material steel Thickness: Sides 1 1/8" Back 5/8" Top 1 1/8" Bottom 1 3/8" Pitch of stays to ditto: Sides 7 7/8"x10" Back 7 1/2"x9 1/2"

Top 10"x10" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 163 Material of stays steel Diameter at

smallest part 1.450 Area supported by each stay 970 Working pressure by rules 120 End plates in steam space: Material steel Thickness 1 5/8"

Pitch of stays 1 1/2"x1 1/8" How are stays secured W.N. Working pressure by rules 125 Material of stays steel Diameter at smallest part 4 1/10"

Area supported by each stay 3150 Working pressure by rules 135 Material of Front plates at bottom steel Thickness 7/8" Material of

Lower back plate steel Thickness 7/8" Greatest pitch of stays 12 3/4"x9 1/2" Working pressure of plate by rules 208 Diameter of tubes 3"

Pitch of tubes 4 1/2"x4 1/2" Material of tube plates steel Thickness: Front 7/8" Back 1 1/8" Mean pitch of stays 10 5/8" Pitch across wide

water spaces 13 1/4" Working pressures by rules 150 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 20"x13" Length as per rule 32" Distance apart 10" Number and pitch of Stays in each 2@10"

Working pressure by rules 120 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

MAC COLL & POLLOCK LTD.

Manufacturer.

Dates During progress of work in shops - - - Apr. 15, May 22, Jul 7, 26-28, 31.
 while building During erection on board vessel - - - Nov. 21, 25, 28 Dec 1

Is the approved plan of boiler yes.

Total No. of visits 10

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The materials and workmanship are good
 The boiler has been made under special survey and satisfactorily fitted in the
 stokehold of the vessel. Safety valves adjusted as above. Both adjusting washers 7/16".

Survey Fee ... £ 2 : 2 : }

When applied for, 8/12/1913

Travelling Expenses (if any) £ : : }

When received, 11/12/1913

Lewis Davis.

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

Committee's Minute

FRI. DEC. 12. 1913

Assigned

see minute

on doc Rpt 65-181



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