

Rpt. 5a.

## REPORT ON BOILERS.

No. 27106

W1115-0121

Date of writing Report

101

When handed in at Local Office

- 3 DEC 1917

Port of Sunderland

Received at London Office

TUE 4 DEC 1917

No. in Survey held at Sunderland

Reg. Book.

on the

Date, First Survey

2 Jan 1916

Last Survey

16 Nov 1917

(Number of Visits)

Gross

Tons

Net

Master

Built at

By whom built

When built

Engines made at

By whom made

When made

Boilers made at Sunderland

By whom made

MacCall & Pollock Ltd (No 265)When made 1917

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons Ltd(Letter for record (5)) Total Heating Surface of Boilers 1982 Is forced draft fitted no No. and Description ofBoilers Two single ended marine Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 16-11-17No. of Certificate 3448 Can each boiler be worked separately X Area of fire grate in each boiler 30 No. and Description of

safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers 10'-6" Length 10'-3"Material of shell plates Steel Thickness  $\frac{29}{32}$  Range of tensile strength 29 $\frac{1}{2}$ -33 Are the shell plates welded or flanged noDescrip. of riveting: cir. seams DR long. seams DBS, DR Diameter of rivet holes in long. seams 1 $\frac{1}{16}$ " Pitch of rivets 5 $\frac{3}{32}$ "Lap of plates or width of butt straps 11 $\frac{1}{2}$ " Per centages of strength of longitudinal joint rivets 82.8 Working pressure of shell byrules 183 Size of manhole in shell 16"x12" Size of compensating ring 28"x26"x $\frac{29}{32}$ " No. and Description of Furnaces in eachboiler 2 plain Material Steel Outside diameter 3'-1 $\frac{1}{2}$ " Length of plain part top 46 $\frac{13}{16}$ " Thickness of plates crown  $\frac{23}{32}$ " bottom  $\frac{13}{32}$ "Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 185 Combustion chamberplates: Material Steel Thickness: Sides  $\frac{5}{8}$ " Back  $\frac{5}{8}$ " Top  $\frac{5}{8}$ " Bottom  $\frac{7}{8}$ " Pitch of stays to ditto: Sides 8 $\frac{3}{4}$ "x8 $\frac{3}{4}$ " Back 8 $\frac{3}{4}$ "x8 $\frac{3}{4}$ "Top 8"x9" If stays are fitted with nuts or riveted heads nuts in use Working pressure by rules 183 Material of stays Steel Area atsmallest part 1'-7 $\frac{3}{8}$ " Area supported by each stay 13.50 Working pressure by rules 188 End plates in steam space: Material Steel Thickness  $\frac{7}{8}$ "Pitch of stays 14"x14" How are stays secured DN & wash Working pressure by rules 185 Material of stays Steel Area at smallest part 3.67Area supported by each stay 196.0 Working pressure by rules 194 Material of Front plates at bottom Steel Thickness  $\frac{7}{8}$ " Material ofLower back plate Steel Thickness  $\frac{7}{8}$ " Greatest pitch of stays 12 $\frac{1}{2}$ "x8 $\frac{3}{8}$ " Working pressure of plate by rules 234 Diameter of tubes 3 $\frac{3}{4}$ "Pitch of tubes 4 $\frac{3}{8}$ "x4 $\frac{1}{2}$ " Material of tube plates Steel Thickness: Front  $\frac{7}{8}$ " Back  $\frac{13}{16}$ " Mean pitch of stays 11 $\frac{1}{16}$ " Pitch across widewater spaces 13 $\frac{1}{2}$ " Working pressures by rules 249 Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 2 @ 7 $\frac{1}{2}$ "x13 $\frac{1}{16}$ " Length as per rule 27 $\frac{5}{16}$ " Distance apart 9" Number and pitch of Stays in each 2 @ 8"Working pressure by rules 189 Steam dome: description of joint to shell none % of strength of joint 91

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

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type none Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

G.R. Pollock Manufacturer.

Managing Director.

Dates of Survey During progress of work in shops - - - 1916 Jan 16, May 19, Oct 2, 1917 Jan 5, Sep 14, Oct 2

while building During erection on board vessel - - - 4, 9, 11, 16, 30, Nov 8, 16

Is the approved plan of boiler forwarded herewith YesTotal No. of visits 13

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

The workmanship and materials are good.

The boilers have been made under special survey.

These boilers were originally intended for the Renoldson ship 800P-174 the Riley has been supplied. Intention these boilers not to be known

Survey Fee ... £ 6 : 12 : When applied for, - 3 DEC 1917

Travelling Expenses (if any) £ : : When received, 17.10. 1918

FRI. JUL. 30 1920

TUE. SEP. 21 1920

Committee's Minute

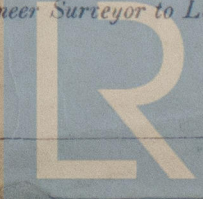
Assigned

La H. K. 1/11 4992

FRI. 4 MAR. 1921

FRI. 9 SEP. 1921

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
Foundation