Rpt. 5a.

(Boiler No 2058).

REPORT ON BOILERS.

No. 80885.

Received at London Office

Date of writing Report ..... 19 .... When handed in at Local Office ..... 19 .... Port of LIVERPOOL

-6 JUN 1920

No. in Reg. Book. Survey held at ..... Date, First Survey 23 Dec 19 Last Survey 19 May 1920.

(Number of Visits 18.)

on the S/S. J. P. Filling. Tons { Gross / Net

Master ..... Built at ..... By whom built ..... When built .....

Engines made at ..... By whom made ..... When made .....

Boilers made at Birkenhead. By whom made Cammell Laird & Co Ld. When made 1920.

Registered Horse Power ..... Owners ..... Port belonging to .....

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons Ld. Earl of Dudley's Round Iron Works.

(Letter for record S) **Total Heating Surface of Boilers** 1490 □ft Is forced draft fitted ..... **No. and Description of Boilers** One. Cylindrical, Multitubular **Working Pressure** 180 lbs. Tested by hydraulic pressure to 360 lbs Date of test 15.5.20.

No. of Certificate 2124. Can each boiler be worked separately ..... **Area of fire grate in each boiler** 48 □ft No. and Description of safety valves to each boiler Two Spring loaded. Area of each valve 4.90 □" 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~~ Inside dia. of boilers 13'-0" Length 10'-0"

Material of shell plates Steel Thickness 1 1/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R., lap. long. seams T.R., Double Straps Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 7 27/32"

Lap of plates or width of butt straps 16 9/16" Per centages of strength of longitudinal joint rivets 88.5% plate 86.6% Working pressure of shell by rules 181 lbs. Size of manhole in shell 16" × 12" Size of compensating ring McNeil. **No. and Description of Furnaces in each boiler** 3. Plain Material Steel Outside diameter 3'-3 3/4" Length of plain part top 5'-11" bottom 6'-5 1/32" (with Angle) Thickness of plates crown / bottom 3/4"

Description of longitudinal joint Weld. No. of strengthening rings One. Working pressure of furnace by the rules 195 lbs Combustion chamber plates: Material Steel Thickness: Sides 21/32" Back 21/32" Top 21/32" Bottom 7/8" Pitch of stays to ditto: Sides 9 1/2" × 8 1/2" Back 9 5/8" × 8 3/4" Top 9" × 7 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 181 lbs Material of stays Steel Area at smallest part 2.03 □" Area supported by each stay 82.03 □" Working pressure by rules 223 lbs End plates in steam space: Material Steel Thickness 1 3/32"

Pitch of stays 18 1/2" × 16 3/4" How are stays secured Nuts & Washers Working pressure by rules 182 lbs Material of stays Steel Area at smallest part 5.56 □" Area supported by each stay 309.8 □" Working pressure by rules 186 lbs Material of Front plates at bottom Steel Thickness 1 1/32" Material of Lower back plate Steel Thickness 29/32" Greatest pitch of stays 15" × 8 3/4" Working pressure of plate by rules 188 lbs Diameter of tubes 3 1/2" × 1".

Pitch of tubes 4 5/8" × 4 5/8" Material of tube plates Steel Thickness: Front 1 1/32" Back 27/32" Mean pitch of stays 11 9/16" Pitch across wide water spaces 14 1/2" Working pressures by rules 181 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 2 in No, 8 3/4" × 3/4". Length as per rule 30 1/2" Distance apart 9" Number and pitch of Stays in each 3 in No, 7 1/2"

Working pressure by rules 194 lbs. Steam dome: description of joint to shell ✓ % of strength of joint ✓

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 ..... ~~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~~ .....

CAMMELL LAIRD AND COMPANY LIMITED.

The foregoing is a correct description,

- 2 JUN 1920

G. W. Lamb

LOCAL SECRETARY. Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1919 Dec 23.30 1920 Jan 5.21.27. Feb. 2.11.17. 25. Mar { During erection on board vessel - - - } 3. 4.18.30. May 5, 11. 15.18.19.

Is the approved plan of boiler forwarded herewith Yes!

Total No. of visits 18.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Main Boiler of this Vessel has now been built under Special Survey and in accordance with the approved plans. Secretary's letter (E). dated 3rd Nov. 1919. The workmanship and materials are of good quality and when tested to twice working pressure was found satisfactory in every respect

Survey Fee ... ... £ 4 : 5 : 0 J.D.

Travelling Expenses (if any) £ 4 : 8 : 0

When applied for, 28 JUN 1920 19....

When received, 6/8/ 19 20

John Dykes Digby M.I.Mech.E.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 28 JUN 1920

Assigned - See Machinery Report -

1177

002119-002126 0/61

© 2020 Lloyd's Register Foundation