

Placed return interest

58.

REPORT ON BOILERS.

No. 74,303.

Received at London Office FRI. 22 APR. 1921

Writing Report April 20th 1921 When handed in at Local Office April 20th 1921 Port of NEWCASTLE ON TYNE

Survey held at Walloed-on-Tyne Date, First Survey 27th Jan'y. Last Survey April 20th 1921

Book on the 3 single ended Main Boilers for the Steamers "Pence" - "Preston". (Number of Visits 7.) Gross Tons }
 Net Tons }

Built at - By whom built - When built -

By whom made - When made -

By whom made Walloed Shipway & Eng. Co. Ltd When made 1921

Owners - Port belonging to -

Indicated Horse Power 469 TOTAL.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons

Number for record 6 Total Heating Surface of Boilers 7041 5¹/₂ Is forced draft fitted Yes No. and Description of Boilers 3 single ended multitubular Working Pressure 180^{psi} Tested by hydraulic pressure to - Date of test -

Can each boiler be worked separately Yes Area of fire grate in each boiler Not given No. and Description of valves to each boiler - Area of each valve - Pressure to which they are adjusted -

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler -

Mean dia. of boilers 15'-0" Length 11-9"

Material of shell plates steel Thickness 1 1/4" Range of tensile strength 28-32 Are the shell plates welded or flanged No

rip. of riveting: cir. seams double + triple long. seams double + triple Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 1/8"

width of butt straps 19 5/8" Per centages of strength of longitudinal joint rivets 88.5 plate 85.5 Working pressure of shell by rules 188 psi

Size of manhole in shell 16" x 12" Size of compensating ring flanged No. and Description of Furnaces in each boiler 3 horizontal Material steel Outside diameter 47 1/2" Length of plain part - Thickness of plates crown 9" bottom 7 1/2"

Material steel Thickness: Sides 3/32" Back 3/32" Top 3/32" Bottom 3/32" Pitch of stays to ditto: Sides 9 1/2" x 8 1/2" Back 9 1/2" x 8 1/2"

If stays are fitted with nuts or riveted heads into Working pressure by rules 180 Material of stays steel Area at largest part 1.737 Area supported by each stay 79.8 Working pressure by rules 180 End plates in steam space: Material steel Thickness 1 3/8"

How are stays secured double into Working pressure by rules 180 Material of stays steel Area at smallest part 8.480

Area supported by each stay 483.7 Working pressure by rules 182.5 Material of Front plates at bottom steel Thickness 3/32" Material of back plate steel Thickness 3/8" Greatest pitch of stays 14" Working pressure of plate by rules 185 Diameter of tubes 3"

Material of tube plates steel Thickness: Front 3/32" Back 3/4" Mean pitch of stays 10 1/8" Pitch across width of tubes 4 1/2" x 4 1/4"

Working pressures by rules 180 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 9 1/4" x 1 1/2" Length as per rule 36 3/32" Distance apart 8 1/2" Number and pitch of Stays in each 3-8 5/8"

Working pressure by rules 180 Steam dome: description of joint to shell none % of strength of joint -

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

Working pressure of shell by rules - Crown plates Thickness - How stayed -

PREHEATER. Type none here Date of Approval of Plan - Tested by Hydraulic Pressure to -

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

Pressure to which each is adjusted - Is Easing Gear fitted -

FOR THE WALLINGFORD SHIPWAY & ENGINEERING CO LIMITED
 The foregoing is a correct description,
James C. Henderson Manufacturer.

Is the approved plan of boiler forwarded herewith Yes *See duplicate plan to 3338 sent up 11/9/20. Report no 73541 made*

Total No. of visits -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The materials and workmanship of these steel boilers are good, and in accordance with the rules' requirements. They have been partly constructed here and are to be shipped to Bristol where they will be riveted together, the tubes & stays fitted in place, and on completion submitted to a hydraulic test of 320 psi per sq. inch

Survey Fee 2/6 per boiler £ 23-19-4 When applied for, 21 April 1921

Travelling Expenses (if any) £ - When received, 21 May 1921
 (Don't memo 21/5/21)

Francis Pittman & C. Stuart
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute - FRI. 27 JAN 1923

Signed Sa J. B. Rep.

Westcott Report

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