

REPORT ON BOILERS.

No. 37818

Received at London Office FRI. 2-MAY. 1918

Date of writing Report 15. 12. 1917 When handed in at Local Office 191 Port of
 No. in Survey held at Paisley Date, First Survey 2/4/17 Last Survey 14/12/1917
 Reg. Book. on the S.S. WAR MUSKET (Number of Visits 23) Gross Tons Net
 Master Built at Bristol By whom built Glasfell & Co (S/S. 124) When built 1915
 Engines made at Sunderland By whom made McIlwain & Pollock Ltd. When made 1915
 Boilers made at Paisley By whom made A.F. Craig & Co Ltd 1917 When made 1917
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~ OR DONKEY.—Manufacturers of Steel Glasfell & Co Ltd

(Letter for record) Total Heating Surface of Boilers 4680 sq ft Is forced draft fitted Yes No. and Description of Boilers 2 Single Ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 14.12.17

No. of Certificate 14023, 14025 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.3 sq ft No. and Description of safety valves to each boiler Two Spring loaded Area of each valve 12.56 sq in Pressure to which they are adjusted 185 lb

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 Internal Mean dia. of boilers 15.6 Length 11.6

Material of shell plates S Thickness 1 $\frac{1}{4}$ Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DRY long. seams TRIOBS Diameter of rivet holes in long. seams 1 $\frac{1}{16}$ Pitch of rivets 9 $\frac{1}{8}$

Top of plates width of butt straps 19 $\frac{1}{2}$ Per centages of strength of longitudinal joint rivets 88.3 plate 85.6 Working pressure of shell by rules 182 Size of manhole in end 16 \times 12 Size of compensating ring flanged No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 50 $\frac{3}{16}$ Length of plain part top Thickness of plates crown 19 $\frac{1}{32}$ bottom 19 $\frac{1}{32}$

Description of longitudinal joint weld. No. of strengthening rings Working pressure of furnace by the rules 184 Combustion chamber plates: Material S Thickness: Sides 28/32 Back 11/16 Top 23/32 Bottom 23/32 Pitch of stays to ditto: Sides 16 $\frac{1}{8}$ \times 9 Back 10 $\frac{1}{8}$ \times 9

Top 10 $\frac{1}{8}$ \times 9 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 180 Material of stays S Diameter at smallest part 10 $\frac{1}{8}$ \times 9 Area supported by each stay 99 sq in Working pressure by rules 184 End plates in steam space: Material S Thickness 11 $\frac{1}{32}$

Pitch of stays 23 $\frac{1}{16}$ \times 20 $\frac{1}{8}$ How are stays secured DN Working pressure by rules 187 Material of stays S Diameter at smallest part 8 $\frac{29}{32}$

Area supported by each stay 454 sq in Working pressure by rules 189 Material of Front plates at bottom S Thickness 21 $\frac{1}{32}$ Material of Lower back plate S Thickness 24 $\frac{1}{32}$ Greatest pitch of stays 13 $\frac{3}{8}$ Working pressure of plate by rules 205 Diameter of tubes 3

Pitch of tubes 4 $\frac{1}{8}$ \times 4 $\frac{1}{4}$ Material of tube plates S Thickness: Front 31 $\frac{1}{32}$ Back 31 $\frac{1}{4}$ Mean pitch of stays 10 $\frac{1}{2}$ Pitch across wide water spaces 13 $\frac{1}{8}$ Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 11 \times 7 $\frac{1}{8}$ (2) Length as per rule 38 $\frac{1}{2}$ Distance apart 10 $\frac{5}{8}$ Number and pitch of Stays in each 3 at 9 $\frac{1}{4}$

Working pressure by rules 206 Superheater or Steam chest: how connected to boiler 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

Survey request form The foregoing is a correct description, CRAIG & Coy., Ltd. Manufacturer.

No. 1980 attached No. 1980 attached

Dates of Survey During progress of 1904 Apr 2-12-27 May 2-7-22-31 June 14-19 July 19-27 Is the approved plan of boiler forwarded herewith Yes

while building (During erection on) Aug 2-23 Sept 6-21 Oct 3-10 Nov 1-7-16-26 Dec 13-14 Total No. of visits 23.

board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special Survey in accordance with the approved plan & the workmanship & material are of good quality.

These boilers have been shipped to Bristol at which port they will be filled on board. These Boilers have now been fitted on above vessel & Safety Valves adjusted to above pressure.

Survey Fee ... When applied for, 29th July 1918

Travelling Expenses ... When received, 191

Committee's Minute GLASGOW 23 MAY 1918

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. G. A. Dyball Toyn

FRI. 2-AUG. 1918

Lloyd's Register Foundation

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