

REPORT ON BOILERS.

No. 39147

Received at London Office

SEP. 24. 1919

Date of writing Report 21st May 1919 When handed in at Local Office 20/9/1919 Port of Glasgow

No. in Survey held at Renfrew Date, First Survey 15/6/1917 Last Survey 13/5/1919

Reg. Book. on the Glasgow Latent Boilers for H.M.S. "REPTON"

Master Built at Glasgow By whom built A. J. Inglis N° 324 When built 1919

Engines made at Glasgow By whom made A. J. Inglis (437) When made 1919

Boilers made at Renfrew By whom made Babcock & Wilcox Ltd N° 374 When made 1919

Registered Horse Power Owners H. M. Government Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Babcock & Wilcox Ltd, Glasgow, Scotland.

Letter for record S Total Heating Surface of Boilers 6990 sq ft Is forced draft fitted Yes No. and Description of

Boilers Glasgow Latent Working Pressure 235 Tested by hydraulic pressure to 352½ Date of test 25.4.19

No. of Certificate 14699 Can each boiler be worked separately Yes Area of fire grate in each boiler 65 sq ft No. and Description of

Safety valves to each boiler Two Cochran Full Port Area of each valve 2.46 sq in 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 4'2" Length 9'6"

Material of shell plates Steel Thickness 5/8" + 1/2" Range of tensile strength 26/30.38/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. Lap long. seams DRD.B.S. Diameter of rivet holes in long. seams 27/32 Pitch of rivets 3 1/4"

Top of plates or width of butt straps 8 1/4 Per centages of strength of longitudinal joint rivets 86.9 Working pressure of shell by

Rules 238 Size of manhole in shell 16" x 12" Size of compensating ring Flanged plate 74.5

Boiler Material Outside diameter Length of plain part Thickness of plates crown bottom

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

Plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at

Smallest part Area supported by each stay Working pressure by rules End plates in steam space: Material Steel Thickness 1 1/16 + 1 1/16

Pitch of stays How are stays secured Working pressure by rules 245 Material of stays Diameter at smallest part

Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes 1 1/8, 1 1/2, 4 3/8

Pitch of tubes 1 1/16 + 2 1/16 Material of tube plates Steel Thickness: Front 1 1/2 Back 1 1/2 Mean pitch of stays Pitch across wide

Water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

Order at centre Length as per rule Distance apart Number and pitch of Stays in each

Working pressure by rules Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

Separately Diameter 2'5 7/8 Length 9'3" Thickness of shell plates 5/8 + 1/2 Material Steel Description of longitudinal joint DRD.B.S. Diam. of rivet

es 27/32 Pitch of rivets 3 3/32 Working pressure of shell by rules 323 Diameter of flue Material of flue plates Thickness

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,

Survey request form

2127 attached

Babcock & Wilcox Ltd Manufacturer.

Dates During progress of 1917 June 15, July 27 Aug 3, 4, 10 Sept 2, 28 1918 July 11 Is the approved plan of boiler forwarded herewith Approved Plan

Survey work in shops - - - Aug 12, Sept 12, Dec 9, 1919 Jan 13, Feb 10, 1924 Total No. of visits 19

While During erection on - - - Oct 9, 23, 25 May 13

Building board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boilers have been built under Special Survey in accordance with the approved plan and the Rules of the Society. The workmanship and materials are good. Boilers have been securely fitted on board and satisfactorily tried under steam.

Survey Fee ... £ : : When applied for, 191

Travelling Expenses (if any) £ : : When received, 191

L. R. Murray, Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 23 SEP. 1919

Assigned See accompanying machinery report

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