

REPORT ON BOILERS.

No. 39276.
WED. 25 OCT. 1919

Received at London Office

of writing Report 30.6.1919 When handed in at Local Office 18/10/1919 Port of Glasgow
 in Survey held at Renfrew Date, First Survey 7/3/1918. Last Survey 30/6/1919.
 Book. on the 2 Jarrow Water Tube Boilers for H.M.S. BRADFIELD (Number of Visits 18) Tons } Gross }
 Net }
 Built at Irvine By whom built Ayrshire Dockyard Co. When built 1919
 Made at Glasgow By whom made W. Rowan & Co. Ltd. When made 1919
 Made at Renfrew By whom made Messrs Babcock & Wilcox When made 1919
 Registered Horse Power Owners British Admiralty Port belonging to
 Steel Co. of Scotland, Glasgow & Clyde Works, Glasgow Iron Works Co., J. Spence & Co.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel
 for record S) Total Heating Surface of Boilers 6990 sq ft Is forced draft fitted Yes No. and Description of
 Two Jarrow Water Tube Working Pressure 235 Tested by hydraulic pressure to 352 1/2 Date of test 30.6.19
 of Certificate 14483 Can each boiler be worked separately Yes Area of fire grate in each boiler 65 sq ft No. and Description of
 14802 valves to each boiler Two Cochran Full Bore Area of each valve 2.76 sq ft Pressure to which they are adjusted 240 lb
 they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 least distance between boilers or uptakes and bunkers or woodwork 8" Mean dia. of boilers 4'-2" Length 9'-6"
 Material of shell plates S Thickness 5/8" x 1 1/2" Range of tensile strength 24/30 28/32 Are the shell plates welded or flanged No
 Grip. of riveting: cir. seams D.R. Lap long. seams DRDBS Diameter of rivet holes in long. seams 2 1/32" Pitch of rivets 3 1/16"
 rivets 86.9 Working pressure of shell by
 plates or width of butt straps 8 1/4" Per centages of strength of longitudinal joint plate 44.5
 Size of manhole in shell 16" x 12" Size of compensating ring Flanged No. and Description of Furnaces in each
 Material none Outside diameter Length of plain part top Thickness of plates crown
 bottom
 No. of strengthening rings Working pressure of furnace by the rules Combustion chamber
 description of longitudinal joint
 Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back
 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 S Thickness 1 1/16" x 1 1/16"
 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
 back plate Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes
 of tubes 1 1/16" x 2 1/16" Material of tube plates S Thickness: Front 1 1/2" Back 1 1/2" Mean pitch of stays Pitch across wide
 Working pressures by rules Girders to Chamber tops: Material Depth and thickness of
 at centre Length as per rule Distance apart Number and pitch of Stays in each
 Working pressure by rules Water Pocket Superheater for Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked
 Diameter 2'-5 1/8" Length 9'-3" Thickness of shell plates 5/8" x 1 1/2" Material S Description of longitudinal joint DRDBS Diam. of rivet
 2 1/32" Pitch of rivets 3 1/32" Working pressure of shell by rules 323 Diameter of flue Material of flue plates Thickness
 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,

Babcock & Wilcox Limited

W. Donald

Manufacturer.

Is the approved plan of boiler forwarded herewith Approved Plan in London Office
 During progress of work in shops - - - 1918: May 15, 22, 30 June 10, 12 July 5
 During erection on board vessel - - - 1919: Aug 2, Sept 12, Dec 9, Jan 13, May 13, 21
 Total No. of visits 18

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 and the rules of the Society. The workmanship
 & materials are good.
 These boilers have now been fitted on board the vessel

Survey Fee ... £ : : When applied for, 191
 Travelling Expenses (if any) : : When received, 191
 W. Fraser, Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 28 OCT 1919
 signed See Glasgow Report No. 39276

