

# REPORT ON BOILERS.

No. 39455

Received at London Office 18 DEC 1919

Date of writing Report Dec 6<sup>th</sup> 1919 When handed in at Local Office Dec 6<sup>th</sup> 1919 Port of GLASGOW  
 No. in Survey held at Renfrew Date, First Survey 4/3/1918 Last Survey 15/9/1919  
 Reg. Book. on the Two Yarrow Water-tube boilers for N° M 395 for Dundee Shipbuilding Co Tons 14884  
 Master                      Built at                      By whom built                      When built                       
 Engines made at                      By whom made                      When made                       
 Boilers made at Renfrew By whom made Babcock & Wilcox When made 1919  
 Registered Horse Power                      Owners H.M. Government Port belonging to                     

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.** Manufacturers of Steel Glasgow Iron & Steel Co  
 Letter for record                      Total Heating Surface of Boilers 6990 Is forced draft fitted Yes No. and Description of 8-9-19  
 Boilers Two Yarrow Water tube Working Pressure 235 Tested by hydraulic pressure to 353 Date of test 15.9.19  
 No. of Certificates 14894 Can each boiler be worked separately Yes Area of fire grate in each boiler 65 No. and Description of                       
 Safety valves to each boiler Two Cockburn Full Bore Area of each valve 2.46 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 Steam Drum 4' 2" Length 9' 6"  
 Material of shell plates Steel Thickness 3/8" & 1/2" Range of tensile strength 26/30 Are the shell plates welded or flanged No  
 Description of riveting: cir. seams D.R. Lap. long. seams D.R. D.B.S. Diameter of rivet holes in long. seams 27/32 Pitch of rivets 3 1/4"  
 Width of butt straps 8 1/4" Per centages of strength of longitudinal joint 86.9 Working pressure of shell by 44.5  
 Size of manhole in END 16" x 12" Size of compensating ring Flanged No. and Description of Furnaces in each                       
 Material None Outside diameter                      Length of plain part                      Thickness of plates                       
 Description of longitudinal joint                      No. of strengthening rings                      Working pressure of furnace by the rules                      Combustion chamber                       
 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                      Area at                       
 Smallest part                      Area supported by each stay                      Working pressure by rules                      End plates in steam DRUM Material Steel Thickness 1/2" & 1"  
 How are stays secured                      Working pressure by rules                      Material of stays                      Area at smallest part                       
 Area supported by each stay                      Working pressure by rules                      Material of Front plates at bottom                      Thickness                      Material of                       
 Thickness                      Greatest pitch of stays                      Working pressure of plate by rules                      Diameter of tubes 1 1/8" & 1 1/2"  
 Material of tube plates Steel Thickness: 1/2" Mean pitch of stays                      Pitch across wide                       
 Working pressures by rules                      Girders to Chamber tops: Material                      Depth and thickness of                       
 Length as per rule                      Distance apart                      Number and pitch of Stays in each                       
 Working pressure by rules                      Steam dome: description of joint to shell                      % of strength of joint                       
 Diameter 2' 5 1/8" x 9' 3" long. Thickness of shell plates 3/8" & 1/2" Material Steel Description of longitudinal joint D.R. D.B.S. Diam. of rivet holes 27/32"  
 Pitch of rivets 3 1/32" Working pressure of shell by rules 323 Crown plates                      Thickness                      How stayed                     

SUPERHEATER. Type None 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                       
 Diameter of Safety Valve                      Pressure to which each is adjusted                      Is Easing Gear fitted                       
 Survey request form                      The foregoing is a correct description, Babcock & Wilcox Limited Manufacturer.

Dates: During progress of 1918 Mar 15 Apr 15 May 15 22.30 June 10 12 July 5 Aug 2 Is the approved plan of boiler forwarded herewith                       
 Survey work in shops Sept 12 Dec 9 1919 Jan 13 Feb 10 19 Apr 19 May 13 July 9 Total No. of visits 22  
 While During erection on Aug 25 Sept 1 & 15 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 material and workmanship are of good quality These boilers are  
till lying in the makers works at Renfrew and it is not known for what purpose  
they will now be used.

Survey Fee                      £                      When applied for, 191  
 Travelling Expenses (if any) £                      When received, 191

Committee's Minute GLASGOW 16 DEC 1919  
 Assigned TRANSMIT TO LONDON  
 David C Barr. Engineer Surveyor to Lloyd's Register of Shipping.  
 Lloyd's Register Foundation  
 W222-0198