

# REPORT ON BOILERS.

No. 38638

Received at London Office WED. AUG. 14. 1918

Date of 1918 When handed in at Local Office 1918 Port of GLASGOW.  
 Survey held at 1918 Date, First Survey 20<sup>th</sup> Mar. 1918. Last Survey 3<sup>rd</sup> July 1918  
 (Number of Visits 9) Gross Tons      Net Tons       
 Built at Newcastle Victoria By whom built Hibernian Government Shipbuilding Yard When built       
 Made at      By whom made      When made       
 Boilers made at Renfrew By whom made Balcock & Wilson 7<sup>00</sup> 821 When made 1918  
 Registered Horse Power Water tube Port belonging to     

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Shields, Steel Co. St. Andrew & Co.

(Letter for record S) Total Heating Surface of Boilers 1820  $\text{sq ft}$  Is forced draft fitted to both sections and Description of Boilers one Balcock boiler's marine Working Pressure 180 Tested by hydraulic pressure to SEE REMARKS Date of test       
 No. of Certificate      Can each boiler be worked separately      Area of fire grate in each boiler 61  $\text{sq ft}$  No. and Description of safety valves to each boiler      Area of each valve      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      Material Steel Drum Mean dia. of boilers 3-6 Length 9' 4 3/8"  
 Material of shell plates S Thickness 1/32 7/8 Range of tensile strength 26/30 Are the shell plates welded or flanged       
 Descrip. of riveting: cir. seams SR long. seams DR. Single BS Diameter of rivet holes in long. seams 25/32 Pitch of rivets 37/32  
 Lap of plates or width of butt straps 6 5/8" Per centages of strength of longitudinal joint 80  $\frac{94.7}{75.73}$  Working pressure of shell by rules 190  $202$  Size of manhole in shell 15 x 11" Size of compensating ring 7/8 x 4 3/4" No. and Description of Furnaces in each boiler       
 Description of longitudinal joint      No. of strengthening rings      Working pressure of furnace by the rules      Combustion chamber       
 Stays: 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 5/8"  
 How are stays secured Radius Working pressure by rules 205 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       
 Thickness 17/32 Greatest pitch of stays      Working pressure of plate by rules      Diameter of tubes 13 1/16 3 5/16  
 Pitch of tubes 2 3/4 + 2 5/8" Material of tube plates S Thickness: Front 7/8" Back      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      Length      Thickness of shell plates 3/4" Material S Description of longitudinal joint      Diam. of rivet       
 Pitch of rivets      Working pressure of shell by rules      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     

Survey request form  
 No. 1886 attached to Gb. Rpt. No. 38037.

The foregoing is a correct description,  
 Babcock & Wilcox Limited.  
 W. Donald Manufacturer.

Dates of Survey 1918 Mar. 30. Apr. 29. May 15. 22. 27. 30. June 5. 12. July 3. Is the approved plan of boiler forwarded herewith Yes  
 while building      Total No. of visits 9 app plan with Gb 38037

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plans, the workmanship, material are of good quality. Steam Drum fitted to both sections of tubes, headers to both mud drums 15 7/8" diameter pressure parts have been loosely erected in the ship, afterwards taken to pieces for shipment to New South Wales. This boiler is intended for New South Wales State Trainers

Survey Fee £ 7 : 6 : - When applied for, 1918  
 Travelling Expenses (if any) £ : : - When received, 1918

W. Gordon Macleod  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW. 13 AUG 1918

Assigned TRANSMIT TO LONDON

Lloyd's Register  
 Foundation