

Rpt. 5a.

REPORT ON BOILERS

THE 11 OCT 1919 No. 38464

Received at London Office WED. 22 JAN. 1919

Date of writing Report 10. 1. 1919. When handed in at Local Office 15. 1. 1919. Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 10/4/18 Last Survey 28/10/18
 Reg. Book. on the Babcock & Wilcox water-tube Boilers No. 402 (Number of Visits 18)
 Master Built at S/S Concordia Tons { Gross Net
 Engines made at By whom made When made
 Boilers made at Rugby By whom made Babcock & Wilcox Ltd 402 When made 1918
 Registered Horse Power Owners H. V. Government Port belonging to u

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Colville & Sons, Steel Co of Scotland, Glasgow & Clyde
 (Letter for record) Total Heating Surface of Boilers 9636 # Is forced draft fitted Yes
 Boilers 3 Babcock & Wilcox Marine Working Pressure 200 Tested by hydraulic pressure to 400 Date of test
 No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler 85 3/4 No. and Description of safety valves to each boiler
 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 Internal Steam Drum
 Material of shell plates S Thickness 9 1/16 + 1 1/16 Range of tensile strength 28/32 Are the shell plates welded or flanged
 Descrip. of riveting: cir. seams DR long. seams TR Single BS Diameter of rivet holes in long. seams 29/32 Pitch of rivets 3.53
 Lap of plates on width of butt straps 4 1/4 Per centages of strength of longitudinal joint rivets 76.7 Working pressure of shell by rules 238 Size of manhole in shell 15 x 11 Size of compensating ring 2-4 3/4 x 1 5/8 No. and Description of Furnaces in each 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 S Thickness 13/16
 Pitch of stays How are stays secured Working pressure by rules 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 S Thickness 1 1/16 Greatest pitch of stays Working pressure of plate by rules Diameter of tubes 13 3/16
 Pitch of tubes 23 1/4 + 2 1/8 Material of tube plates S Thickness: Front 1 1/16 Back Mean pitch of stays Pitch across wide water spaces
 Working pressures by rules Girders to Chamber tops: Material Depth and thickness of girder 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 Muddum Thickness of shell plates 3/4 Material S 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

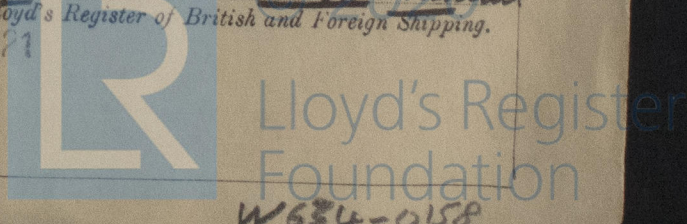
Survey request form
 No. 2164 attached to Gls. Rpt. No 38228
 The foregoing is a correct description, Babcock & Wilcox Limited, Manufacturer.
 Dates of Survey: During progress of 1918 Apr 10. 15. May 6. 15. 22. 30. June 3. 6. 10. 12. July 5. Is the approved plan of boiler forwarded herewith Approved plan already in hands.
 while work in shops - - -
 building During erection on 27. Aug 2. 26. Sept. 12. 15. Oct. 8. 28. Total No. of visits 18

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boilers have been built under special survey in accordance with the approved plans & the Rules of the Society. The workmanship & material is good. The sections & drums have been tested to 600 lbs sq. in. & the mudrums to 400 lbs sq. in. The Boilers have been dispatched, in section, to the Naval Stores Officer, Chesham & will be re-assembled after fitting on board the vessel.

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

Committee's Minute GLASGOW 21 JAN 1919
 Assigned TRANSMIT TO LONDON

Fred A. Ferguson and W. Gordon Macdonald
 Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.



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