

## REPORT ON BOILERS.

No. 39781.  
MAR 31 1920

Received at London Office

Date of writing Report *Mar 24<sup>th</sup> 1920* When handed in at Local Office *Mar 25<sup>th</sup> 1920* Port of *GLASGOW*  
 No. in Survey held at *Renfrew* Date, First Survey *8-7-18* Last Survey *25-8-1919*  
 Reg. Book. on the *Two Babcock & Wilcox boilers for MAR FIG* (Number of Visits *25*) } Gross  
 Tons } Net  
 Master Built at By whom built When built  
 Engines made at By whom made When made  
 Boilers made at *Renfrew* By whom made *Messrs Babcock & Wilcox Ltd (434.)* When made *1920*  
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel *Stewart & Lloyds*

Letter for record *S* ) Total Heating Surface of Boilers *5526 sq ft* Is forced draft fitted *STEAM DRUMS* No. and Description of  
 Boilers *Two Babcock & Wilcox* Working Pressure *180 lbs* Tested by hydraulic pressure to *MUD DRUMS* to 400 lbs. Date of test *Sections to 400 lbs.*

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler *84.5 sq ft* No. and Description of

safety valves to each boiler *Two Spring-loaded* 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 of shell plates *Steel* Thickness *1 1/32 & 1"* Range of tensile strength *28/32* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *DR Lap* long. seams *TR SBS* Diameter of rivet holes in long. seams *2 1/32* Pitch of rivets *3 1/64*

Width of butt straps *4"* Per centages of strength of longitudinal joint rivets *44.5* Working pressure of shell by plate *45.8*

Rules *210* Size of manhole in shell *15 x 11* Size of compensating ring *28 3/4 x 22" x 1/8"* No. and Description of Furnaces in each

Boiler *None* Material Outside diameter Length of plain part top 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 *DRUM* Material *Steel* Thickness *1 1/16*

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

LEADERS near back plate *Steel* Thickness *1 1/32* Greatest pitch of stays Working pressure of plate by rules Diameter of tubes *1 13/16 & 1 15/16*

Pitch of tubes *2 5/8 & 2 3/4* Material of tube plates *Steel* Thickness: Front *3/4* 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 *None* Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Plates 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

The foregoing is a correct description,

Babcock &amp; Wilcox Limited. Manufacturer.

Dates During progress of 1918 July 8. 9. Aug 2. 15. 29. Sept 12. Oct 8. 15. 16. 18. 22  
 Survey work in shops - - - 25. 29. Nov 4. 14. 19. Dec 2. 9. 13. 19.  
 While During erection on 1919 Feb 22. 24. 28. Mar 10. Aug 15.  
 building board vessel - - -

Is the approved plan of boiler forwarded herewith

Total No. of visits *25*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

*These boilers have been built under special survey in accordance with approved plans. The workmanship and materials are good. Sections steam drums and mud drums tested as above. They have been erected in shop. The boiler parts have been despatched to Messrs Finch & Co. Chepstow where the boilers will be re-erected on board and tested.*

Shipping.

Survey Fee ... £ *14 : 5 : 0* When applied for, *1919*Travelling Expenses (if any) £ : : When received, *1919*

*D. C. Barr*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

GLASGOW 30 MAR 1920

Signed TRANSMIT TO LONDON

FRI JAN. 7 1920

Lloyd's Register  
Foundation

W291-0211