

## REPORT ON BOILERS.

No. 71824

Received at London Office

MON 5 MAY 1919

Date of writing Report *5<sup>th</sup> April 1919* When handed in at Local Office *3.5.1919* Port of *NEWCASTLE-ON-TYNE*  
 No. in Survey held at *Newcastle-on-Tyne* Date, First Survey *27<sup>th</sup> Sept. 1918* Last Survey *4<sup>th</sup> April 1919*  
 Reg. Book. *on the steam steamer "War Paper"* (Number of Visits *20*) Gross Tons *(Gard No 1101)* Net  
 Master *Built at Holland* By whom built *Swan Hunter & Wigham Richardson* When built *1919*  
 Engines made at *Newcastle-on-Tyne* By whom made *Swan Hunter & Wigham Richardson* When made *1919*  
 Boilers made at *Newcastle-on-Tyne* By whom made *Swan Hunter & Wigham Richardson* When made *1919*  
 Registered Horse Power *Owners* Port belonging to *Liverpool*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Swan Hunter & Wigham Richardson*

ter for record *5* ) Total Heating Surface of Boilers *4668 sq. ft.* Is forced draft fitted *Yes* No. and Description of  
 ers *3: Cylindrical built: Single* Working Pressure *180 lbs* Tested by hydraulic pressure to *260 lbs* Date of test *4/4/19*  
 of Certificate *9213* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *635 sq. ft.* No. and Description of  
 y valves to each boiler *2: Direct Spring* Area of each valve *9.62 sq. ft.* Pressure to which they are adjusted *✓*  
 they fitted with easing gear *✓* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *✓*  
 llest distance between boilers or uptakes and bunkers or woodwork *✓* Mean dia. of boilers *18' 6"* Length *11' 6"*  
 erial of shell plates *Steel* Thickness *1 1/4"* Range of tensile strength *28/2 tons* Are the shell plates welded or flanged *No*  
 rip. of riveting: cir. seams *Lap Double* long. seams *Double Strap* Diameter of rivet holes in long. seams *1 5/8"* Pitch of rivets *9 1/2"* 4.96  
 of plates or width of butt straps *19 1/2"* Per centages of strength of longitudinal joint *87.5* Working pressure of shell by  
*182 lbs* Size of manhole in shell *16 x 12* Size of compensating ring *plate flanged* No. and Description of Furnaces in each  
 er *3: Dightons* Material *Steel* Outside diameter *50 3/4"* Length of plain part *top 3' 6 1/2"* Thickness of plates *crown 19 1/2"*  
 ription of longitudinal joint *weld* No. of strengthening rings *none* Working pressure of furnace by the rules *188 lbs* Combustion chamber  
 s: Material *Steel* Thickness: Sides *2 3/4"* Back *1 1/4"* Top *2 3/4"* Bottom *2 3/4"* Pitch of stays to ditto: Sides *9 1/2 x 10 1/2"* Back *10 1/2 x 8 1/2"*  
*18 1/2 x 9 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *180 lbs* Material of stays *Steel* Diameter at  
 lest part *2 3/8"* Area supported by each stay *98 sq. in.* Working pressure by rules *215 lbs* End plates in steam space: Material *Steel* Thickness *1 1/2"*  
 of stays *2 1/4 x 2 1/8"* How are stays secured *Double nuts & washers* Working pressure by rules *186 lbs* Material of stays *Steel* Diameter at smallest part *8 1/2"*  
 supported by each stay *456 sq. in.* Working pressure by rules *184 lbs* Material of Front plates at bottom *Steel* Thickness *3 1/2"* Material of  
 or back plate *Steel* Thickness *2 3/4"* Greatest pitch of stays *15 1/8"* Working pressure of plate by rules *188 lbs* Diameter of tubes *2 3/4"*  
 of tubes *4 x 3 3/8"* Material of tube plates *Steel* Thickness: Front *3 1/2"* Back *3 1/4"* Mean pitch of stays *9.81"* Pitch across wide  
 spaces *13 1/8"* Working pressures by rules *181 lbs* 209 lbs Girders to Chamber tops: Material *Steel* Depth and thickness of  
 r at centre *10 x 1 1/4"* Length as per rule *35 9/16"* Distance apart *10 5/8"* Number and pitch of Stays in each *3: 9 1/2"*  
 ing pressure by rules *184 lbs* Superheater or Steam chest: *how connected to boiler none* Can the superheater be shut off and the boiler worked  
 ately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 fened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed  
 ing pressure of end plates Area of safety valves to superheater Are they fitted with easing gear *✓*

FOR The foregoing is a correct description,  
SWAN, HURTER & WIGHAM RICHARDSON, LTD.

G. J. Stoney Manufacturer.

During progress of work in shops - - - 1918  
 During erection on board vessel - - - 1919  
 1918 27. Oct. 3. 23. 28. Nov. 20. 25. 26. Dec. 16.  
 1919 Jan. 8. 20. Feb. 3. Mar. 4. 7. 12. 14. 20. 25. 28. Apr. 11. 14.

Is the approved plan of boiler forwarded herewith *Yes*Total No. of visits *20*

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

These Boilers were built under special survey and the materials and workmanship are good. On completion they were tested by hydraulic pressure required by the Rules and found tight and sound.

Survey Fee £ 29: 7: 8 When applied for, 191  
 Travelling Expenses (if any) £ : : When received, 17. 6. 191

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

FRI. 27 JUN. 1919

Committee's Minute

Assigned

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W230-0267



As these boilers are not intended  
for a classed vessel it is submitted  
further action is unnecessary.

HWD

13/5/19



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