

REPORT ON BOILERS.

No. 39228

Received at London Office **THU. 16 OCT. 1919**

Date of writing Report **1919** When handed in at Local Office **13/10/1919** Port of **Glasgow.**

No. in Survey held at **Renfrew** Date, First Survey **7/3/19.** Last Survey **8/9/1919.**

Reg. Book. on the **Two Babcock & Wilcox boilers for (Standard #)** (Number of Visits **19.**)

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 (495)** When made **1919.**

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 **\$526 £** Is forced draft fitted

Boilers **Two Babcock & Wilcox.** Working Pressure **180** Tested by hydraulic pressure to **Sections 400 lbs.**

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler **84 1/2 sq ft** 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 **Int. Steam drum 48" Mean dia. of boilers Length 13'-3 1/2"**

Material of shell plates **S** Thickness **1 1/2"** Range of tensile strength **24/28** Are the shell plates welded or flanged **No**

Description of riveting: cir. seams **D.R. Lap** long. seams **D.R. Lap with Inside Stap.** Diameter of rivet holes in long. seams **2 1/2"** Pitch of rivets **3 3/4"**

No. of plates **2/0** width of butt strap **5 1/2" x 4"** Per centages of strength of longitudinal joint **77.5** Working pressure of shell by rules **75.8**

Size of manhole in shell **15" x 11"** Size of compensating ring **2'-4 3/4" x 1'-10" x 1/8"** 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

Material: 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 Material of Front plates at bottom Thickness Material of

Header back plate **Steel** Thickness **1 1/2"** Greatest pitch of stays Working pressure of plate by rules Diameter of tubes **2 1/4" x 2 5/8"**

Pitch of tubes **2 3/4" x 2 5/8"** Material of tube plates **S** Thickness: Front 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

holes 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 2245 attached** The foregoing is a correct description, **Babcock & Wilcox Limited** Manufacturer.

Dates of Survey: During progress of **1919** work in shops **May 21-27** Apr 10-23 May 15-16 19-21-30 Is the approved plan of boiler forwarded herewith **Yes.**

while building: During erection on board vessel **June 18-26-27-30 July 7-9 Aug 22-25 Sep 8.** Total No. of visits **19.**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **The boilers have been built under Special Survey in accordance with the approved plan and the Rules of the Society. The materials and workmanship are good. The Steam drums, mud drums & Sections have been tested as above. The boilers have been despatched to Messrs Inch & Co Chepstow where they will be fitted on board and tested.**

Survey Fee ... £ **14 : 5 : 9** When applied for, **15/6/19** The boilers have been erected **in Shop**

Travelling Expenses (if any) £ : : When received, **8/9/19**

Committee's Minute **GLASGOW 14 OCT 1919** **FRI JUN. 18 1920**

Assigned **TRANSMIT TO LONDON** **FRI. OCT. 15 1920**

TUE JAN. 18 1921

TUE FEB. 8 1921

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REPORT ON MATTER

Glo Rpt 39728
17/10/19