

REPORT ON BOILERS.

No. 39481.
MAR 31 1920

Received at London Office

Date of writing Report Mar 24th 1920 When handed in at Local Office Mar 25th 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 Tons }

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 _____ No. and Description of STEAM DRUMS To 360 lbs.

Boilers Two Babcock & Wilcox Working Pressure 180 lbs. Tested by hydraulic pressure to _____ Date of test _____
 MUD DRUMS To 400 lbs. 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 _____
 INT STEAM DRUM
 Mean dia. of boilers 4'-0" Length 13' 3 1/2"

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

rip of plates or width of butt straps 4" Per centages of strength of longitudinal joint _____ Working pressure of shell by _____
 rivets 44.5
 plate 45.8

ules 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 _____ Thickness of plates crown _____ bottom _____

Description of longitudinal joint _____ No. of strengthening rings _____ Working pressure of furnace by the rules _____ Combustion chamber _____

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 ^{DRUM} _____ Material Steel Thickness 1 3/16

itch 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

itch 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 _____

ter spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and thickness of _____

der 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 _____

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

es _____ 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 & Wilcox Limited. Manufacturer.

Dates During progress of work in shops: 1918 July 9, Aug 2, 15, 29, Sept 12, Oct 3, 15, 16, 18, 22, 25, 29, Nov 4, 14, 19, Dec 2, 9, 13, 19, 1919 Feb 23, 24, 28, Mar 10, Aug 25
 While During erection on 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, &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. Cheltenham where the boilers will be re-erected on board and tested.

Survey Fee ... £ 14 : 5 : 0 When applied for, London 3/11/1920
 Travelling Expenses (if any) £ _____ When received, 19.1.1921

Committee's Minute _____
 signed _____
 TRANSMIT TO LONDON

GLASGOW 30 MAR 1920
 FRI JAN. 7 1920
 Lloyd's Register Foundation
 W291-0211