

## REPORT ON BOILERS.

No. 30357.

Date of writing Report July 1<sup>st</sup> 1911 When handed in at Local Office 4/7/1911 Port of Glasgow  
 Description of Safety No. in Survey held at Clydebank Date, First Survey 20<sup>th</sup> April 1910 Last Survey 6<sup>th</sup> July 1911  
100 on the Steel Twin 1/2 Argyllshire (Number of Visits) Gross 10392  
 Master W. Thacker Built at Clydebank By whom built J. Brown & Co Ltd When built 1911  
 Engines made at Clydebank By whom made J. Brown & Co Ltd when made 1911  
 Boilers made at do By whom made do when made 1911  
 Registered Horse Power Owners Turnbull Martin & Co Port belonging to Glasgow

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Steel Co of Scotland

Letter for record S Total Heating Surface of Boilers Is forced draft fitted yes No. and Description of  
 Boilers Two - double ended Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 21-9-10  
28-9-10

No. of Certificate 10592 Can each boiler be worked separately yes Area of fire grate in each boiler 154.6 sq No. and Description of  
10605 safety valves to each boiler 3 spring loaded Area of each valve 11.04 sq Pressure to which they are adjusted 215 lbs

Are they fitted with easing gear yes 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 15" Mean dia. of boilers 14'-0" Length 20'-6"

Material of shell plates steel Thickness 1 3/4 Range of tensile strength 30 1/2 to 34 1/2 tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams lap DR+TR long. seams DBS+TR Diameter of rivet holes in long. seams 1 3/4 Pitch of rivets 10 1/2

Top of plates or width of butt straps 24 1/2 Per centages of strength of longitudinal joint rivets 94.1 Working pressure of shell by  
 rules 233 Size of manhole in shell 22" x 18" Size of compensating ring 3'-6 1/2" x 2'-11" plate 8 3/4

No. and Description of Furnaces in each  
 boiler 8 Brighton Material steel Outside diameter 46 5/8 Length of plain part top Thickness of plates crown 11  
bottom 16

Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 243 Combustion chamber  
 plates: Material steel Thickness: Sides 5/8 Back — Top 5/8 Bottom 15/16 Pitch of stays to ditto: Sides 7 1/2 x 7 1/2 Back —

Top 7 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 217 Material of stays steel Diameter at  
 smallest part 1 4/8 Area supported by each stay 62 Working pressure by rules 215 End plates in steam space: Material steel Thickness 1 5/32

Pitch of stays 16 1/2 x 16 3/8 How are stays secured DN Working pressure by rules 221 Material of stays steel Diameter at smallest part 3 3/16

Area supported by each stay 270 sq Working pressure by rules 306 Material of Front plates at bottom steel Thickness 1 5/16 Material of  
 lower back plate — Thickness — Greatest pitch of stays 14" Working pressure of plate by rules 220 Diameter of tubes 2 1/2

Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates steel Thickness: Front 1 3/16 Back 1" Mean pitch of stays 9 3/8 Pitch across wide

water spaces 13 1/2 doubled Working pressures by rules 292 Girders to Chamber tops: Material steel Depth and thickness of  
 order at centre 2 plates 12 1/4 x 1 1/8 Length as per rule 4'-6" Distance apart 7 1/2 Number and pitch of Stays in each 6 of 4 1/2"

Working pressure by rules 226 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 ✓

have the 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 ✓

John Brown &amp; Company, Limited.

The foregoing is a correct description,

Manufacturer.

Dates During progress of work in shops See Machinery report. Assistant Secretary  
 Survey while building During erection on board vessel —

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

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

See machinery report.

Survey Fee ... £ : : When applied for, 19  
 Travelling Expenses (if any) £ : : When received, 19

Committee's Minute

Glasgow

45 JUL 1911

Assigned See accompanying machinery report

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



Lloyd's Register Foundation

WS14-0229