

REPORT ON BOILERS.

No. 30357.

Received at London Office

WED. 5 JUL 1911

Date of writing Report July 1st 1911 When handed in at Local Office 4/7/11 Port of Glasgow
 No. in Survey held at Clydebank Date, First Survey 20th April 10 Last Survey 6th July 1911
 No. in Book 100 on the Steel Twin 1/2 Argyllshire (Number of Visits) } Gross 10392
 Master W. Bicker 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 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 / 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 22x18 Size of compensating ring 3'-6 1/2 x 2'-11" 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 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 1.48" Area supported by each stay 62 Working pressure by rules 215 End plates in steam space: Material steel Thickness 15/32

Pitch of stays 16 1/2 x 16 1/2 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 15/16 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 13/16 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 7 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 rivets _____

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 _____

John Brown & Company, Limited.

The foregoing is a correct description,

Manufacturer.

Dates of Survey See Machinery report. Is the approved plan of boiler forwarded herewith Yes
 while building _____ Total No. of visits _____

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

See machinery report.

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

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



WS14-0229