

REPORT ON BOILERS.

No. 30587.
MON. SEP. 18. 1911

Received at London Office

When handed in at Local Office 16-9-11 Port of Glasgow
 Date, First Survey 11-1-11 Last Survey 7-6-1911
 (Number of Visits 21) } Gross 872
 Tons } Net 794
 Survey held at Glasgow
 on the ss Bargany
 Y. Black Built at Greenock By whom built Greenock & Grangemouth D.D. Co. When built 1911
 Boatbridge By whom made W. T. T. Lidgerwood when made 1911
 Rivets made at Glasgow By whom made Dunsmuir & Jackson L^d (391) when made 1911
 Plates made at Glasgow By whom made Dunsmuir & Jackson L^d (391) when made 1911
 Registered Horse Power 138 Owners Paton & Steady Port belonging to Glasgow

LITUBULAR BOILERS—MAIN, ~~SUBSIDIARY OR DONKEY~~—Manufacturers of Steel Calville

Total Heating Surface of Boilers 2542 Is forced draft fitted no No. and Description of Boilers one single ended
 Working Pressure 160 Tested by hydraulic pressure to 220 Date of test 12-5-11
 Certificate 10995 Can each boiler be worked separately Area of fire grate in each boiler 78 No. and Description of Valves to each boiler Area of each valve 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
 Least distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 16-6" Length 11-0"

Material of shell plates S Thickness 13/16" Range of tensile strength 28/32 Are the shell plates welded or flanged
 Pitch of riveting: cir. seams DR long. seams TR & DBS Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 13/16"
 Width of butt straps 18 3/4" Per centages of strength of longitudinal joint rivets 87.25 Working pressure of shell by plate 85.75

Size of manhole in shell 16 x 12" Size of compensating ring 80" 9 1/2" No. and Description of Furnaces in each chamber 1
 Material S Outside diameter 3-8" Length of plain part 11-11" Thickness of plates 1 1/2"
 Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 176 Combustion chamber

Material S Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 13/16" Pitch of stays to ditto: Sides 8 7/8 x 8 1/2" Back 9 1/2 x 8 1/2"
 If stays are fitted with nuts or riveted heads Auto Working pressure by rules 163 Material of stays S Diameter at top 1 1/16"
 Area supported by each stay 80" Working pressure by rules 198 End plates in steam space: Material S Thickness 1 1/16"
 How are stays secured DN Working pressure by rules 171 Material of stays S Diameter at smallest part 5-268"

Supported by each stay 297" Working pressure by rules 185 Material of Front plates at bottom S Thickness 1" Material of back plate S Thickness 7/8" Greatest pitch of stays 14 5/8 x 8 1/2" Working pressure of plate by rules 205 Diameter of tubes 3 1/2"
 Material of tube plates S Thickness: Front 1" Back 13/16" Mean pitch of stays 11 7/8" Pitch across wide spaces 14 1/2" Working pressures by rules 170 Girders to Chamber tops: Material Iron Depth and thickness of

at centre 9 x 1" (2) Length as per rule 3-0-2 1/2" Distance apart 9 1/2" Number and pitch of Stays in each 32-8 3/8"
 Working pressure by rules 175 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

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
 Stays fitted 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,
 For DUNSMUIR & JACKSON, Limited Manufacturer.
James Fletcher

During progress of work in shops: 1911. Jan. 11. 18. 25-31. Feb. 9. 13. 15-23. Mar. 2. 9. 14-17. Is the approved plan of boiler forwarded herewith? Yes
 During erection on board vessel: April 6. 19. 28. May 2. 10. 12. June 7. Total No. of visits 21

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special Survey in accordance with the approved plan & the workmanship & material are of good quality

Survey Fee charged on Machinery Rpt. When applied for, 19
 Travelling Expenses (if any) £ When received, 19

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

TUE. SEP. 26. 1911

