

REPORT ON BOILERS.

No. 25291

TUES. 21 MAY 1907

Date of writing Report 17th May 1907 When handed in at Local Office 17th May 1907 Port of Glasgow
 No. in Survey held at Dalmuir Date First Survey 10th May 06 Last Survey 6th May 1907
 Reg. Book. I S S Duilpue (Number of Visits) Gross Tons }
 on the I S S Duilpue Net Tons }
 Master Built at Dalmuir By whom built H^m Beardmore & Co Ld When built 1907
 Engines made at Dalmuir By whom made H^m Beardmore & Co Ld when made 1907
 Boilers made at do By whom made do when made 1907
 Registered Horse Power 550 Owners Pacific Steam Nav Co Port belonging to Liverpool

MULTITUBULAR BOILERS ~~MANNING~~ DONKEY. — Manufacturers of Steel H^m Beardmore & Co Ld

(Letter for record S) Total Heating Surface of Boilers 864 sq ft Is forced draft fitted No No. and Description of Boilers One Single Ended Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 4/10/06
 No. of Certificate 7289 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30 sq ft No. and Description of safety valves to each boiler Two, direct spring Area of each valve 4.9 sq in Pressure to which they are adjusted 125 lbs
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 Smallest distance between boilers or uptakes and bunkers or woodwork 3-0" Mean dia. of boilers 10-6" Length 9-0"
 Material of shell plates Steel Thickness 29/32" Range of tensile strength 29/32 tons Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams DR Lap long. seams Double Strap Diameter of rivet holes in long. seams 15/16" Pitch of rivets 5 5/16"
 Lap of plates or width of butt straps 15 3/4" Per centages of strength of longitudinal joint rivets 88.3 Working pressure of shell by rules 125 lbs plate 82.3
 Size of manhole in shell 16" x 12" Size of compensating ring M^cNeill No. and Description of Furnaces in each boiler Two, plain Material Steel Outside diameter 37 1/8" Length of plain part 66" Thickness of plates 17/32" crown 9 1/2" bottom 9 1/2"
 Description of longitudinal joint Welded No. of strengthening rings None Working pressure of furnace by the rules 124 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 13/16" Pitch of stays to ditto: Sides 9 x 8" Back 9 x 8"
 Top 9 x 7 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 122 Material of stays Steel Diameter at smallest part 1 1/4" Area supported by each stay 720 sq in Working pressure by rules 126 End plates in steam space: Material Steel Thickness 15/16"
 Pitch of stays 15 x 15" How are stays secured By Nuts Working pressure by rules 151 Material of stays Steel Diameter at smallest part 3 7/32"
 Area supported by each stay 226 sq in Working pressure by rules 166 Material of Front plates at bottom Steel Thickness 3/16" Material of Lower back plate Steel Thickness 1/16" Greatest pitch of stays 14 1/4" Working pressure of plate by rules 122 Diameter of tubes 3 1/4"
 Pitch of tubes 4 1/2" Material of tube plate Steel Thickness: Front 3/16" Back 3/16" Mean pitch of stays 11 1/8" Pitch across wide water spaces 14 1/4" Working pressures by rules 166 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6" x 4 1/4" Length as per rule 24 1/16" Distance apart 7 1/2" Number and pitch of Stays in each Two, 9"
 Working pressure by rules 157 lbs 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 holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If 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,
 For **WILLIAM BEARDMORE & CO., LIMITED** Manufacturer.
C. F. Young

Dates of Survey } During progress of work in shops - - }
 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, &c. As per attached report on machinery.)

Survey Fee ... £ : : } When applied for, 20 MAY 1907 19
 Travelling Expenses (if any) £ : : } When received, 19

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

Glasgow 20 MAY 1907

Committee's Minute
 Assigned See accompanying report

