

REPORT ON BOILERS.

No 29106.

Received at London Office THUR. 21 JUL 1910

Writing Report 2nd July 1910 When handed in at Local Office 4th July 1910 Port of Glasgow
 of Safe in Survey held at Pollokshaws, Glasgow Date, First Survey H. Appleby Last Survey 23rd June 1910
 Book. on the S.S. Airmaird Head. (Number of Visits 13) Gross 190.09 Tons Net 73.35
 Master John Campbell Built at Bowling By whom built Scott & Sons When built 1910
 Engines made at Govan By whom made Gauldie & Gillespie when made 1910
 Boilers made at Pollokshaws By whom made A. & H. Dalglish (nos 466) when made 1910
 Registered Horse Power Owners A. J. Hardy & J. Mac Gregor Port belonging to Leith

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel D. Colville & Sons Ltd

Letter for record S Total Heating Surface of Boilers 862 sq ft Is forced draft fitted No. and Description of Boilers One, Single Ended Working Pressure 125 lbs Tested by hydraulic pressure to 250 lbs Date of test 23/6/10
 No. of Certificate 10462 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 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 Inside diam. of boilers 10'-0" Length 9'-6"
 Material of shell plates Steel Thickness 2 1/32" Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Description of riveting: cir. seams 2 R. Lap long. seam 3 R. Butt Diameter of rivet holes in long. seams 7/8" Pitch of rivets 4 7/8"
 Width of butt straps 9 1/2" Percentages of strength of longitudinal joint rivets 83.5 Working pressure of shell by plate 82.0
 Weight of plates 127 lbs Size of manhole in shell 16" x 12" Size of compensating ring 6" x 2 1/32" No. and Description of Furnaces in each boiler No, plain Material Steel Outside diameter 37 1/8" Length of plain part 72" Thickness of plates 9/16" crown bottom }
 Description of longitudinal joint Welded No. of strengthening rings None Working pressure of furnace by the rules 127 Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 8 x 7 1/2 Back 7 1/4 x 7 1/2
 Top 8 x 7 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 128 Material of stays Steel Diameter at smallest part 1 1/4" Area supported by each stay 81 sq in Working pressure by rules 155 End plates in steam space: Material Steel Thickness 13/16"
 Pitch of stay 14 x 14 How are stays secured B. nuts Working pressure by rules 150 Material of stay Steel Diameter at smallest part 2.660" Area supported by each stay 196 sq in Working pressure by rules 141 Material of Front plates at bottom Steel Thickness 13/16" Material of lower back plate Steel Thickness 13/16" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 187 Diameter of tubes 3 1/4"
 Pitch of tubes 4 3/8" Material of tube plate Steel Thickness: Front 13/16" Back 19/32" Mean pitch of stays 9 1/16" Pitch across wide water spaces 13 3/4" Working pressures by rules 125 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2" x 1" Length as per rule 26 29/32 Distance apart 7" Number and pitch of Stays in each Two, 8"
 Working pressure by rules 126 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

Survey request form No. 380 attached The foregoing is a correct description, A. & H. Dalglish Manufacturer.

Dates of Survey: During progress of work in shops -- 1910 Apr 4. 9. May 3. 10. 11. 12. 16. 19 Is the approved plan of boiler forwarded herewith Yes - Invoices
 while building: During erection on board vessel -- June 2. 7. 15. 20. 28. Total No. of visits 13

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special Survey, the materials and workmanship are of good quality and on completion was tested by hydraulic pressure to 250 pounds per square inch and was found tight and sound at that pressure.

Survey Fee ... £ 2 : 13/4 When applied for 11/9/10
 Travelling Expenses (if any) £ : : When received 11/9/10

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

Committee's Minute Glasgow 20 JUL 1910
 Assigned See minute on machinery report.
 012553-012563-0201

