

REPORT ON BOILERS.

No. 27422

WED. 17 FEB 1909

Received at London Office

Date of writing Report 19 When handed in at Local Office 13th Feb 1909 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 24th Aug 1908 Last Survey 8th Feb 1909
 Reg. Book. S.S. "Beothic" (Number of Visits 39) Gross 1140.13 Tons Net 471.42
 Master J. C. Jackson Built at Glasgow By whom built D. W. Henderson & Co. Ltd When built 1909
 Engines made at Glasgow By whom made D. W. Henderson & Co. Ltd when made 1909
 Boilers made at Glasgow By whom made D. W. Henderson & Co. Ltd when made 1909
 Registered Horse Power Owners Job Brothers & Co. Port belonging to Newfoundland.

MULTITUBULAR BOILERS ~~WATER~~, AUXILIARY ~~OR DONKEY~~.—Manufacturers of Steel Tom Beardmore & Co. Ltd
 (Letter for record S ✓) Total Heating Surface of Boilers 1803 Is forced draft fitted no ✓ No. and Description of Boilers 1 single ended ✓ Working Pressure 180 Tested by hydraulic pressure to 360 lbs Date of test 15/12/08
 No. of Certificate 9637 Can each boiler be worked separately ✓ Area of fire grate in each boiler 40.22 sq No. and Description of safety valves to each boiler 1 pair direct spring Area of each valve 7.95 sq Pressure to which they are adjusted 185 lbs
 Are they fitted with easing gear yes ✓ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler, usually boiler ✓
 Smallest distance between boilers or uptakes and bunkers or woodwork 7 Mean dia. of boilers 12' 6" Length 10' 0"
 Material of shell plates steel Thickness 1 1/2" Range of tensile strength 28/32 Are the shell plates welded or flanged no ✓
 Descrip. of riveting: cir. seams double lap long. seams triple butt Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 7" ✓
 Lap of plates or width of butt straps 15" ✓ Per centages of strength of longitudinal joint rivets 86.1 Working pressure of shell by rules 183 lbs plate 86.2
 Size of manhole in shell 16" x 12" ✓ Size of compensating ring 28 1/2 32 No. and Description of Furnaces in each boiler 2 Dighton Material steel Outside diameter 48 3/8" Length of plain part top 9" bottom 16" Thickness of plates crown 9" bottom 16" ✓
 Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 183 Combustion chamber plates: Material steel Thickness: Sides 2 1/2" Back 2 1/2" Top 2 1/2" Bottom 7/8" Pitch of stays to ditto: Sides 9" x 9" Back 9" x 9" Top 9" x 9" If stays are fitted with nuts or riveted heads nuts ✓ Working pressure by rules 184 Material of stays steel Diameter at smallest part 1.98 Area supported by each stay 81" Working pressure by rules 220 End plates in steam space: Material steel Thickness 1 1/2" ✓
 Pitch of stays 18 x 18 How are stays secured 2 nuts Working pressure by rules 184 Material of stays steel Diameter at smallest part 5.789 Area supported by each stay 322" Working pressure by rules 189 Material of Front plates at bottom steel Thickness 2 9/32" Material of Lower back plate steel Thickness 5 3/64" Greatest pitch of stays 13 1/4" Working pressure of plate by rules 184 Diameter of tubes 3" ✓
 Pitch of tubes 4 3/8" x 4 1/4" Material of tube plates steel Thickness: Front 1" Back 1 1/16" Mean pitch of stays 8 9/8" Pitch across wide water spaces 14 1/2" Working pressures by rules 227, 179 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 1/2" x 7 1/8" Length as per rule 24 1/16" Distance apart 9" Number and pitch of Stays in each two 9" ✓
 Working pressure by rules 214 1/2 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 DAVID & WILLIAM HENDERSON & CO., LIMITED Manufacturer.
 D. W. Henderson Director

Dates of Survey: During progress of work in shops - - - See accompanying Machinery report
 while building During erection on board vessel - - -
 Is the approved plan of boiler forwarded herewith
 Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 This boiler has been built under survey, the materials and workmanship are of good description.
 See later B. Rpt. 1/49.

Survey Fee ... £
 Travelling Expenses (if any) £ See accompanying machinery report
 When applied for 19
 When received 19
 A. M. McKeand
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASCOW 16 FEB. 1909
 Assigned See minute on accompanying report.
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