

REPORT ON BOILERS

No. 34146

Received at London Office WED. SEP. 25 1917.

Date of writing Report 23.9.17 1917 When handed in at Local Office _____ Port of GLASGOW
 No. in Survey held at Glasgow Date, First Survey 8.3.15 Last Survey 19th Sept. 1917
 Reg. Book. S/S "Glenlyon" (Number of Visits 61) } Gross
 on the _____ } Net
 Master _____ Built at Glasgow By whom built E. Coumell & Co. When built 1917
 Engines made at Glasgow By whom made Dunsmuir & Jackson L^{td} (457) When made 1917
 Boilers made at ditto By whom made ditto (457) When made 1917
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel James Dunlop, Bruce & Bell
 (Letter for record R. (S)) Total Heating Surface of Boilers 941 Is forced draft fitted No No. and Description of Boilers one single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 22.3.17
 No. of Certificate 13436 Can each boiler be worked separately Area of fire grate in each boiler 324 No. and Description of safety valves to each boiler Double Spring Area of each valve 4.06 Pressure to which they are adjusted 105
 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 4.6 Mean dia. of boilers 11-0 1/16 Length 9.6
 Material of shell plates S Thickness 1 1/16 Range of tensile strength 28/32 Are the shell plates welded or flanged
 Descrip. of riveting: cir. seams DR long. seams RL Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 4
 Lap of plates width of butt straps 4 1/4 Per centages of strength of longitudinal joint rivets 82 Working pressure of shell by rules 115 Size of manhole in shell 16x12 Size of compensating ring 53 1/4 x 3 1/4 plate 73.3 No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 3.538 Length of plain part 6.0 Thickness of plates 19/32
 Description of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 110 Combustion chamber plates: Material S Thickness: Sides 1 1/2 Back 1 3/32 Top 1 1/2 Bottom 3/4 Pitch of stays to ditto: Sides 4 3/4 x 9 1/4 Back 8 1/2 x 8 3/4
 Top 4 3/4 x 8 1/4 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 110 Material of stays Iron Area at smallest part 988.22 Area supported by each stay 48 Working pressure by rules 102 End plates in steam space: Material S Thickness 3/4
 Pitch of stays 15 1/2 x 14 7/8 How are stays secured DN Working pressure by rules 110 Material of stays S Area at smallest part 343
 Area supported by each stay 230 Working pressure by rules 130 Material of Front plates at bottom S Thickness 3/4 Material of Lower back plate S Thickness 1 1/16 Greatest pitch of stays 16 1/8 x 3/4 Working pressure of plate by rules 116 Diameter of tubes 3
 Pitch of tubes 4 1/4 x 4 1/2 Material of tube plates S Thickness: Front 3/4 Back 5/8 Mean pitch of stays 11 Pitch across wide water spaces 14 Working pressures by rules 142 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 6 3/4 (2) Length as per rule 24.185 Distance apart 8 1/4 Number and pitch of Stays in each 2 at 4 3/4
 Working pressure by rules 134 Steam dome: description of joint to shell _____ % of strength of joint _____
 Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____
DUNSMUIR & JACKSON, Limited.
 The foregoing is a correct description,
James Alcher Director. Manufacturer.

Dates of Survey } During progress of work in shops - - - } See Machinery Report.
 while building } During erection on board vessel - - - }
 Is the approved plan of boiler forwarded herewith No
 Total No. of visits forwarded with Rept. No. 36963

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special Survey in accordance with the approved plans & the workmanship & material are of good quality. This boiler is a dupl. of 456 S/S "Glenlyon" Est. Rept. No. 36963. This report accompanies that of the Machinery

Survey Fee _____ When applied for, _____ 191
 Travelling Expenses (if any) £ _____ When received, _____ 191
 charged on _____
 Committee's Minute GLASGOW, 25 SEP. 1917
 Assigned See accompanying machinery report.
W. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping.

