

REPORT ON BOILERS

No. 34/46

Received at London Office

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Date of writing Report 23.9.17 When handed in at Local Office 1917 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 Tons 1917
 on the S/S "Glenlyon" Net Tons 1917
 Master Glasgow Built at Glasgow By whom built E. Coumell & Co. When built 1917
 Engines made at Glasgow By whom made Dunsmuir & Jackson & Co. (Ld.) 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, James & Co. Ltd.(Letter for record R. (S) Total Heating Surface of Boilers 941 Is forced draft fitted No No. and Description ofBoilers one Single Ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 22.3.17No. of Certificate 13436 Can each boiler be worked separately ✓ Area of fire grate in each boiler 324 No. and Description ofsafety valves to each boiler Double Spring Area of each valve 4.06 Pressure to which they are adjusted 105Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NoSmallest distance between boilers or uptakes and bunkers or woodwork 4.6 Mean dia. of boilers 11-0 1/16 Length 9-6Material 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 4Lap of plates width of butt straps 4 1/4 Per centages of strength of longitudinal joint rivets 82 Working pressure of shell byrules 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 eachboiler 2 plain Material S Outside diameter 3.538 Length of plain part 6.0 Thickness of plates 19 1/32Description of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 110 Combustion chamberplates: Material S Thickness: Sides 1 1/2 Back 4 1/32 Top 1 1/2 Bottom 3 1/4 Pitch of stays to ditto: Sides 4 3/4 x 9 1/4 Back 8 1/2 x 8 3/4Top 4 3/4 x 8 1/4 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 110 Material of stays Iron Area atsmallest part 98 1/2 x 12 1/4 Area supported by each stay 48 Working pressure by rules 102 End plates in steam space: Material S Thickness 3 1/4Pitch of stays 15 1/2 x 14 1/8 How are stays secured DN Working pressure by rules 110 Material of stays S Area at smallest part 343Area supported by each stay 230 Working pressure by rules 130 Material of Front plates at bottom S Thickness 3 1/4 Material ofLower back plate S Thickness 1 1/16 Greatest pitch of stays 16 1/8 x 3 1/4 Working pressure of plate by rules 116 Diameter of tubes 3Pitch of tubes 4 1/4 x 4 1/2 Material of tube plates S Thickness: Front 3 1/4 Back 5 1/8 Mean pitch of stays 11 Pitch across widewater spaces 14 Working pressures by rules 142 Girders to Chamber tops: Material Iron Depth and thickness ofgirder at centre 6 3/4 x 4 (2) Length as per rule 24.185 Distance apart 8 1/4 Number and pitch of Stays in each 2 at 4 3/4Working 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 Dunlop Director. Manufacturer.

Dates of Survey During progress of work in shops
 while building During erection on board vessel
See Machinery Report.

Is the approved plan of boiler forwarded herewith NoTotal No. of visits forwarded with Rpt. 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" Rpt. No. 36963. This report accompanies that of the Machinery

Survey Fee When applied for, 191Travelling Expenses (if any) £ When received, 191Charged on W. Gordon-MitchellCommittee's Minute GLASGOW. 25 SEP. 1917Assigned See accompanying machinery report.

Engineer Surveyor to Lloyd's Register of Shipping.