

Rpt. 5a.

# REPORT ON BOILERS.

No. 35634  
WED. APR. 30 1913  
WED. JUN 4 1913

Date of writing Report 19-4 1913 When handed in at Local Office 26-4 1913 Port of Glasgow  
 Description of Safety No. in Survey held at Glasgow Date, First Survey 12-11-12 Last Survey 18-4 1913  
 Reg. Book. on the %s Clandeboye (Number of Visits 28) Gross Tons }  
 Net }  
 Master Built at Bouluig By whom built Scott Sons When built 1913  
 Engines made at Glasgow By whom made Aitken & Blair L<sup>o</sup> 82 When made 1913  
 Boilers made at auto By whom made Dunsen & Jackson L<sup>o</sup> (BB) When made 1913  
 Registered Horse Power Owners J. Kelly Lim Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Glasgow & Co. & Co. & Co.

(Letter for record) Total Heating Surface of Boilers 1938 Is forced draft fitted No No. and Description of Boilers one single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 18-4-13  
 No. of Certificate 12073 Can each boiler be worked separately Area of fire grate in each boiler 60-5 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 Mean dia. of boilers 14-10 3/16 Length 10-6  
 Material of shell plates S Thickness 1 3/16 Range of tensile strength 28/32 Are the shell plates welded or flanged  
 Descrip. of riveting: cir. seams DR. long. seams TR. DBS Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 3/4  
 Gap of plates or width of butt straps 1-6 7/8 Per centages of strength of longitudinal joint rivets 87-75 plate 85-75 Working pressure of shell by rules 181 Size of manhole in shell 16x12 Size of compensating ring 90x9 1/2 No. and Description of Furnaces in each boiler 3 boorugata Material S Outside diameter 3-10 Length of plain part top 9 1/16 bottom 9 1/16  
 Description of longitudinal joint mild No. of strengthening rings Working pressure of furnace by the rules 187 Combustion chamber plates: Material S Thickness: Sides 1 1/16 Back 1 1/16 Top 1 1/16 Bottom 7/8 Pitch of stays to ditto: Sides 9 1/16 x 9 Back 9 1/2 x 9 1/2 area  
 If stays are fitted with nuts or riveted heads 9 1/2 Working pressure by rules 182 Material of stays S Diameter at smallest part 1-99-23 Area supported by each stay 90 Working pressure by rules 195 End plates in steam space: Material S Thickness 1 1/4 area  
 Pitch of stays 1 1/2 x 20 1/4 How are stays secured DN Working pressure by rules 194 Material of stays S Diameter at smallest part 69 area  
 Area supported by each stay 355 Working pressure by rules 199 Material of Front plates at bottom S Thickness 1 1/64 Material of lower back plate S Thickness 29/32 Greatest pitch of stays 1 1/2 x 9 1/2 Working pressure of plate by rules 200 Diameter of tubes 3 1/4  
 Pitch of tubes 4 1/2 x 4 9/16 Material of tube plates S Thickness: Front 1 1/64 Back 13/16 Mean pitch of stays 11 3/8 Pitch across wide  
 Inter spaces 14 1/4 Working pressures by rules 191 Girders to Chamber tops: Material No Depth and thickness of  
 Rder at centre 9 x 7 1/8 (2) Length as per rule 2-9 Distance apart 9 Number and pitch of Stays in each 2 at 9 1/16  
 Working pressure by rules 185 Superheater or Steam chest; how connected to boiler 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  
 Plates Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 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. 1126 attached

The foregoing is a correct description,

James Fitcher Manufacturer.

Dates of Survey During progress of work in shops: 1912 Nov. 12-21-25 Dec. 2-5-10-12-23-27  
 while building During erection on board vessel: 1913 Jan. 16-22 Feb. 10-11-12-17-18-19-24-27  
 Is the approved plan of boiler forwarded herewith Yes  
 Total No. of visits 28

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been built under special survey in accordance with the approved plan & the workmanship & material are of good quality. This Boiler is intended to be fitted on board at Glasgow & is a duplicate of this No. 432 Gb Rpt. 31953

Survey Fee ... £ 6 : 9 : When applied for, 28-4-1913  
 Travelling Expenses (if any) £ : : When received, 30-4-1913

Wm. Gordon Maclellan  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 29 APR. 1913

Assigned Transmit to London

GLASGOW 3-JUN. 1913  
 See minute on Gb Rpt. No. 32770

Lloyd's Register Foundation

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