

## REPORT ON BOILERS.

No. 17123  
WED. 14 MAR. 1917

Received at London Office

Date of writing Report 5 March 1917 When handed in at Local Office 9 March 1917 Port of GreenockNo. in Survey held at Greenock

Reg. Book.

Date, First Survey 14<sup>th</sup> June, 1916: Last Survey 8 March 1917on the Old Steamer Beechpark

(Number of Visits 82.)

Gross 4763

Tons Net 3503

Master Built at Greenock By whom built Greenock Steamship Co Ltd When built 1917Engines made at Greenock By whom made John & Kincaid & Co Ltd when made 1917Boilers made at Greenock By whom made John & Kincaid & Co Ltd when made 1917Registered Horse Power Owners J. J. Benholm Port belonging to GreenockMULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stirling & Co, Glasgow(Letter for record Q) Total Heating Surface of Boilers 975 sq ft Is forced draft fitted in No. and Description ofBoilers one single ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 11/2/17No. of Certificate 1277 Can each boiler be worked separately — Area of fire grate in each boiler 32 sq ft No. and Description ofsafety valves to each boiler Two Spring Area of each valve 5.94 sq in Pressure to which they are adjusted 105 lbAre they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler inSmallest distance between boilers or uptakes and bunkers or woodwork in bulk Mean dia. of boilers 11.0 Length 11.0Material of shell plates steel Thickness 2 1/2 Range of tensile strength 28-32 Are the shell plates welded or flanged —Descrip. of riveting: cir. seams single long. seams stitch Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 4 1/2Lap of plates or width of butt straps 6 3/8 Per centages of strength of longitudinal joint rivets 79.47 Working pressure of shell byrules 103 lb Size of manhole in shell 16 x 12 Size of compensating ring 50 x 26 x 1/2 No. and Description of Furnaces in eachboiler Two Main Material steel Outside diameter 39 1/2 Length of plain part top 6.8 1/2 Thickness of plates crown 9/16Description of longitudinal joint add No. of strengthening rings — Working pressure of furnace by the rules 115 lb Combustion chamberplates: Material steel Thickness: Sides 1 7/8 Back 9/16 Top 1 7/8 Bottom 1 3/8 Pitch of stays to ditto: Sides 10 1/2 x 8 Back 10 1/2 x 9 1/4Top 10 1/2 x 8 If stays are fitted with nuts or riveted heads none Working pressure by rules 101 lb Material of stays steel Diameter atsmallest part 1.24 Area supported by each stay 98.4 Working pressure by rules 101 lb End plates in steam space: Material steel Thickness 1 1/4Pitch of stays 19 1/4 How are stays secured all nut Working pressure by rules 100 lb Material of stays steel Diameter at smallest part 5.79Area supported by each stay 430 Working pressure by rules 102 lb Material of Front plates at bottom steel Thickness 1 1/4 Material ofLower back plate steel Thickness 1 1/4 Greatest pitch of stays 14 Working pressure of plate by rules 186 lb Diameter of tubes 5 1/4Pitch of tubes 4 1/2 Material of tube plates steel Thickness: Front 1 1/4 Back 1 1/4 Mean pitch of stays 11.77 Pitch across widewater spaces 14 Working pressures by rules 120 lb Girders to Chamber tops: Material steel Depth and thickness ofgirder at centre 7 1/2 x 1 1/2 Length as per rule 29.8 Distance apart 104 Number and pitch of Stays in each Two 8Working pressure by rules 104 lb Superheater or Steam chest: how connected to boiler — Can the superheater be shut off and the boiler workedseparately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivetholes — 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 —For and on behalf of The foregoing is a correct description,John G. Kincaid & Co., Ltd.

Manufacturer.

Dates of Survey  
During progress of work in shops --  
while building  
During erection on board vessel --See 1st Entry - Machinery.

Is the approved plan of boiler forwarded herewith

Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Workmanship good.

This donkey boiler has been constructed under special survey in accordance with the approved Rules. Tested by hydraulic pressure and found tight and sound. It has been efficiently fitted under the bridge deck of the above named steamer.

Survey Fee ... £ : When applied for, 19.

Travelling Expenses (if any) £ : When received, 19.

James Jones

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

Committee's Minute GLASGOW

13 MAR. 1917

Assigned See accompanying machinery report

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