

# REPORT ON BOILERS.

WED. 14 MAR 1917 No. 17123

Received at London Office

Date of writing Report 5 March 1917 When handed in at Local Office 9 March 1917 Port of Greenock  
 No. in Survey held at Greenock Date, First Survey 14<sup>th</sup> June, 1916: Last Survey 8 March 1917  
 Reg. Book. on the Old Steamer Beechpark (Number of Visits 82) Tons Gross 4763  
Net 3503  
 Master Built at Greenock By whom built Greenock Steamship Co Ltd When built 1917  
 Engines made at Greenock By whom made John S Kincaid & Co Ltd when made 1917  
 Boilers made at Greenock By whom made John S Kincaid & Co Ltd when made 1917  
 Registered Horse Power Owners J. J. Benbow Port belonging to Greenock

**MULTITUBULAR BOILERS** — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Stanger, S. & Co, Glasgow  
 (Letter for record Q) Total Heating Surface of Boilers 975 sq ft Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 13/2/17  
 No. of Certificate 1277 Can each boiler be worked separately no Area of fire grate in each boiler 32 sq ft No. and Description of safety valves to each boiler Two Spring Area of each valve 5.94 sq in Pressure to which they are adjusted 105 lb  
 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 on deck Mean dia. of boilers 11.0 Length 11.0  
 Material of shell plates steel Thickness 2 1/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams single long. seams staggered Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 4 1/2  
 Lap of plates or width of butt straps 6 3/8 Per centages of strength of longitudinal joint rivets 79.47 Working pressure of shell by rules 103 lb Size of manhole in shell 16" x 12" Size of compensating ring 10" x 26" x 1/32" No. and Description of Furnaces in each boiler Two Main Material steel Outside diameter 39 1/2 Length of plain part 6.8 1/2 Thickness of plates 9/16  
 Description of longitudinal joint addled No. of strengthening rings no Working pressure of furnace by the rules 115 lb Combustion chamber plates: Material steel Thickness: Sides 17/32 Back 9/16 Top 17/32 Bottom 13/16 Pitch of stays to ditto: Sides 10 1/2 x 8" Back 10 1/2 x 9 1/4" Top 10 1/2 x 8" If stays are fitted with nuts or riveted heads no Working pressure by rules 101 lb Material of stays steel Diameter at smallest part 1.25 Area supported by each stay 98.4 Working pressure by rules 101 lb End plates in steam space: Material steel Thickness 1 1/16 Pitch of stays 19 1/4 How are stays secured with nuts Working pressure by rules 100 lb Material of stays steel Diameter at smallest part 5.79 Area supported by each stay 430 Working pressure by rules 102 lb Material of Front plates at bottom steel Thickness 1 1/16 Material of Lower back plate steel Thickness 1 1/16 Greatest pitch of stays 14 Working pressure of plate by rules 186 lb Diameter of tubes 5 1/4 Pitch of tubes 4 1/2 Material of tube plates steel Thickness: Front 1 1/16 Back 1 1/16 Mean pitch of stays 11.77 Pitch across wide water spaces 14 Working pressures by rules 120 lb Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 1/2" x 1 1/2" Length as per rule 29.8 Distance apart 10 1/2 Number and pitch of Stays in each Two 8" Working pressure by rules 104 lb Superheater or Steam chest: how connected to boiler no Can the superheater be shut off and the boiler worked separately no 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

For and on behalf of John S. Kincaid & Co., Ltd. Manufacturer. J. Kincaid Director.

Dates of Survey See 1st Entry - Machinery Is the approved plan of boiler forwarded herewith no  
 while building See 1st Entry - Machinery Total No. of visits 82

**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 State Spirit. Tested by hydraulic pressure and found tight and sound. It has now been efficiently fitted under the bridge deck of the above named steamer.

Survey Fee ... £ : When applied for, ... 19.  
 Travelling Expenses (if any) £ no : When received, ... 19.

Committee's Minute GLASGOW 13 MAR 1917  
 Assigned See accompanying machinery report  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. James Jones

