

REPORT ON BOILERS.

No. 5511

Received at London Office **MUN. 20 JUL 1908**
 Date of writing Report July 14 1908 When handed in at Local Office July 16 1908 Port of MIDDLESBROUGH-ON-TEES.
 No. in Survey held at Stockton Date, First Survey Jan 10 Last Survey July 8 1908
 Reg. Book. on the Donkey Boiler (N.492.) of S.S. "Crevington Court." (Number of Visits) Gross 4395.64 Net 2715.92
 Master _____ Built at Stockton By whom built Richardson Duck & Co When built 1908
 Engines made at Stockton By whom made Polain & Co. Ltd when made 1908
 Boilers made at Stockton By whom made Polain & Co. Ltd when made 1908
 Registered Horse Power ✓ Owners Crevington S.S. Co. Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons Ltd

(Letter for record ✓) Total Heating Surface of Boilers 1314 sq ft Is forced draft fitted No No. and Description of Boilers One Cyl Tubular Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 7.2.08

No. of Certificate 4093 Can each boiler be worked separately ✓ Area of fire grate in each boiler 35 3/4 sq ft No. and Description of safety valves to each boiler Two, Spring Area of each valve 7.07 sq in Pressure to which they are adjusted 100 lbs

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 18 in Dia. of boilers 12 - 1/4 in Length 10 - 3 in

Material of shell plates Steel Thickness 5/8 in Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams L.S. Riv. long. seams Butt Straps Diameter of rivet holes in long. seams 15/16 in Pitch of rivets one row 5 1/2 in, two rows 2 7/8 in

Lap of plates 5 1/2 in width of butt straps 10 3/4 in Per centages of strength of longitudinal joint rivets 84.7 Working pressure of shell by rules 102 lbs Size of manhole in shell 16 x 12 in Size of compensating ring 30 x 26 x 5/8 in No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 3 - 4 in Length of plain part 5 - 10 1/2 in Thickness of plates 1 1/2 in

Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 112 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16 in Back 9/16 in Top 9/16 in Bottom 15/16 in Pitch of stays to ditto: Sides 10 1/4 x 9 1/2 in Back 9 3/4 x 9 1/2 in

Top 9 3/4 x 9 1/2 in If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 112 lbs Material of stays Steel Diameter at smallest part 1 1/4 in Area supported by each stay 97.57 sq in Working pressure by rules 112 lbs End plates in steam space: Material Steel Thickness 13/16 in

Pitch of stays 9 x 16 1/2 in How are stays secured Nuts Working pressure by rules 106 lbs Material of stays Steel Diameter at smallest part 2 in

Area supported by each stay 313.5 sq in Working pressure by rules 104 lbs Material of Front plates at bottom Steel Thickness 13/16 in Material of Lower back plate Steel Thickness 3/4 in Greatest pitch of stays 15 3/4 x 9 1/2 in Working pressure of plate by rules 115 lbs Diameter of tubes 3 1/4 in

Pitch of tubes 4 5/8 x 4 5/8 in Material of tube plates Steel Thickness: Front 13/16 in Back 3/4 in Mean pitch of stays 12 1/8 in Pitch across wide water spaces 1 1/4 in Working pressures by rules 112 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 3/4 x 1 1/4 in Length as per rule 29 1/2 in Distance apart 9 3/4 in Number and pitch of Stays in each Two 9 3/4 in

Working pressure by rules 106.8 lbs Superheater or Steam chest; how connected to boiler None 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 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 _____

The foregoing is a correct description,
Geo. Nettleship Manufacturer.

Dates of Survey } During progress of work in shops - - } 1908 Jan 10. 14. 22. 31 Feb 5. 7
 while building } During erection on board vessel - - - } June 16. 24. 26. 29 July 3. 8
 Is the approved plan of boiler forwarded herewith No. Polain's
 Total No. of visits 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey the materials and workmanship are good and efficient, and when tested under steam was found satisfactory.

Survey Fee £ 2 : 2 : } When applied for, 3 - 3 1908 AND
 Travelling Expenses (if any) £ : : } When received, 10 2 1908

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

TUES. 21 JUL 1908

Committee's Minute
 Assigned

