

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 R. D. 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* 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* No. and Description of safety valves to each boiler *Two, spring* Area of each valve *7.07* 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* Dia. of boilers *12 - 1 1/4* Length *10 - 3*
 Material of shell plates *Steel* Thickness *5/8* Range of tensile strength *28/32* Are the shell plates welded or flanged *No*
 Descrip. of riveting: cir. seams *L.D. Riv.* long. seams *2 Butt Straps* Diameter of rivet holes in long. seams *15/16* Pitch of rivets *one row 5 1/2*
 Lap of plates *5 1/2* width of butt straps *10 3/4* Per centages of strength of longitudinal joint rivets *84.7* Working pressure of shell by rules *83.87*
 Size of manhole in shell *16 x 12* Size of compensating ring *30 x 26 x 5/8* No. and Description of Furnaces in each boiler *2 plain* Material *Steel* Outside diameter *3 - 4* Length of plain part *top 5 - 10 1/2* Thickness of plates *bottom 16 - 3 at 2 1/2* crown *1 1/2* bottom *2 1/2*
 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* Back *9/16* Top *9/16* Bottom *15/16* Pitch of stays to ditto: Sides *10 1/4 x 9 1/2* Back *9 3/4 x 9 1/2*
 Top *9 3/4 x 9 1/2* 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 5/16* Area supported by each stay *97.57* Working pressure by rules *112 lbs* End plates in steam space: Material *Steel* Thickness *13/16*
 Pitch of stays *10 x 16 1/2* How are stays secured *Nuts* Working pressure by rules *106 lbs* Material of stays *Steel* Diameter at smallest part *2*
 Area supported by each stay *313.5* Working pressure by rules *104 lbs* Material of Front plates at bottom *Steel* Thickness *13/16* Material of Lower back plate *Steel* Thickness *3/4* Greatest pitch of stays *15 3/4 x 9 1/2* Working pressure of plate by rules *115 lbs* Diameter of tubes *3 1/4*
 Pitch of tubes *4 5/8 x 4 5/8* Material of tube plates *Steel* Thickness: Front *13/16* Back *3/4* Mean pitch of stays *12 1/8* Pitch across wide water spaces *1 1/4* 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* Length as per rule *29 1/2* Distance apart *9 3/4* Number and pitch of Stays in each *Two 9 3/4*
 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.

Committee's Minute

TUES. 21 JUL 1908

Assigned

Lloyd's Register Foundation

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