

Rpt. 5a.

REPORT ON BOILERS.

No. 64996
THU. OCT. 23. 1913

Received at London Office
Date of writing Report *11th Oct 1913* When handed in at Local Office *11th Oct 1913* Port of *Newcastle on Tyne*
No. in Survey held at *South Shields* Date, First Survey *15th May 1913* Last Survey *9-11-1913*
Reg. Book. *15* on the *S S Figulina* (Number of Visits) Gross *1087* Tons Net *561*
Master Built at *Sunderland* By whom built *Gibboun & Graham & Co* When built *1913*
Engines made at *S Shields* By whom made *G I Grey* When made *1913*
Boilers made at *S Shields* By whom made *J I Eltringham & Co* When made *1913*
Registered Horse Power Owners *A J. Superst* Port belonging to *Rouen*

MULTITUBULAR BOILERS—MAIN, ~~AND DONKEY~~—Manufacturers of Steel *Spencer & Sons Ltd*(Letter for record *S*) Total Heating Surface of Boilers *2440* sq ft Is forced draft fitted *No* No. and Description ofBoilers *Two Single Ended* Working Pressure *180 lb* Tested by hydraulic pressure to *360 lb* Date of test *6/8/13*No. of Certificate *8542* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *34.5 sq ft* No. and Description ofsafety valves to each boiler *2 Spring loaded* Area of each valve *8.19 sq in* Pressure to which they are adjusted *185 lb*Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *Yes*Smallest distance between boilers or uptakes and bunkers or woodwork *Inside* dia. of boilers *11-10 1/8 in* Length *10'-0"*Material of shell plates *Steel* Thickness *15/16 in* Range of tensile strength *29 3/4 to 33 tons* Are the shell plates welded or flanged *No*Descrip. of riveting: cir. seams *2 R Lap* long. seams *5 R Butt* Diameter of rivet holes in long. seams *1 in* Pitch of rivets *7 in*Pitch of plates or width of butt straps *15 in* Per centages of strength of longitudinal joint rivets *88-9* plate *85-6* Working pressure of shell byrules *182* Size of manhole in shell *16" x 12"* Size of compensating ring *31 x 27 x 15/16 in* No. and Description of Furnaces in eachboiler *Two, plain* Material *Steel* Outside diameter *43 in* Length of plain part *73 in* Thickness of plates *25/32 in*Description of longitudinal joint *Welded* No. of strengthening rings *None* Working pressure of furnace by the rules *180* Combustion chamberplates: Material *Steel* Thickness: Sides *11/16 in* Back *23/32 in* Top *11/16 in* Bottom *1 in* Pitch of stays to ditto: Sides *10 x 9 in* Back *9 7/8 x 9 7/8 in*Top *9 x 8 in* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *186* Material of stays *Steel* Diameter atsmallest part *1.98 in* Area supported by each stay *920 sq in* Working pressure by rules *182* End plates in steam space: Material *Steel* Thickness *1 in*Pitch of stays *16 3/8 x 16 in* How are stays secured *Nuts* Working pressure by rules *181* Material of stays *Steel* Diameter at smallest part *4.57 in*Area supported by each stay *362 sq in* Working pressure by rules *181* Material of Front plates at bottom *Steel* Thickness *1 in* Material ofLower back plate *Steel* Thickness *29/32 in* Greatest pitch of stays *14 1/2 x 9 7/8 in* Working pressure of plate by rules *184* Diameter of tubes *3 1/2 in*Pitch of tubes *4 3/4 in* Material of tube plates *Steel* Thickness: Front *1 in* Back *13/16 in* Mean pitch of stays *10 1/16 in* Pitch across widewater spaces *14 1/2 in* Working pressures by rules *182 lb* Girders to Chamber tops: Material *Steel* *29 3/4 to 33 tons* Depth and thickness ofgirder at centre *8 x 15 1/16 in* Length as per rule *30 in* Distance apart *8 in* Number and pitch of Stays in each *Two, 9 in*Working pressure by rules *184 lb* 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,

J. Donovan Manufacturer.

Is the approved plan of boiler forwarded herewith *Yes* - InvoicesDates of Survey During progress of work in shops - - - *May 15-16-21-30 June 6-11-13-14-17 July 8-10-11-13-22* Total No. of visits *(16)*while building During erection on board vessel - - - *See Weekly Report*GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been built**under special survey, the materials and workmanship are of good**quality and on completion were tested by hydraulic pressure to**360 pounds per square inch & were found tight & sound at that**pressure. They are now fitted on board the S S Figulina.*Survey Fee ... £ *2 10* When applied for *191*Travelling Expenses (if any) £ : : When received *191*

George Murdoch.

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

Committee's Minute

Assigned

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Foundation