

St. Rpt. 25-901

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
(Number of Visits)

Reg. Book. 15 on the S S Figulina Tons } Gross 1087
Net 561

Master Built at Sunderland By whom built Gebourne Graham & Co When built 1913

Engines made at S Shields By whom made G J Grey When made 1913

Boilers made at S Shields By whom made J S Clithrough & Co When made 1788
de Generale d'Anthonys When made 1913

Registered Horse Power Owners A J August Port belonging to Rouen

MULTITUBULAR BOILERS—MAIN, ~~ASSEMBLED ON DONKEY~~—Manufacturers of Steel Spencer & Sons Ltd

(Letter for record S) Total Heating Surface of Boilers 2400 ^{see New No. 1014} Is forced draft fitted No No. and Description of Boilers No. Single Ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs 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 of safety valves to each boiler 2 Spring-loaded Area of each valve 8.19 sq in Pressure to which they are adjusted 185 lbs sq in

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 11-10/8 Length 10'-0"

Material of shell plates Steel Thickness 15/16 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" Pitch of rivets 7"

Pitch of plates or width of butt straps 15" Per centages of strength of longitudinal joint rivets 88-9 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12" Size of compensating ring 31 x 27 x 15/16 No. and Description of Furnaces in each boiler No, plain Material Steel Outside diameter 43" Length of plain part 73" Thickness of plates 25/32

Description of longitudinal joint Welded No. of strengthening rings None Working pressure of furnace by the rules 180 Combustion chamber plates: Material Steel Thickness: Sides 11/16 Back 23/32 Top 11/16 Bottom 1" Pitch of stays to ditto: Sides 10 x 9 Back 9 7/8 x 9 7/8

Top 9 x 8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 186 Material of stays Steel Diameter at smallest part 1.98 Area supported by each stay 120 Working pressure by rules 182 End plates in steam space: Material Steel Thickness 1"

Pitch of stays 16 3/8 x 16 How are stays secured Nuts Working pressure by rules 181 Material of stays Steel Diameter at smallest part 1.570

Area supported by each stay 362 Working pressure by rules 181 Material of Front plates at bottom Steel Thickness 1" Material of Lower back plate Steel Thickness 29/32 Greatest pitch of stays 14 1/2 x 9 7/8 Working pressure of plate by rules 184 Diameter of tubes 3 1/2"

Pitch of tubes 4 3/4 Material of tube plates Steel Thickness: Front 1" Back 13/16 Mean pitch of stays 10 1/16 Pitch across wide water spaces 14 1/2 Working pressures by rules 182 lbs Girders to Chamber tops: Material Steel 29 1/2 to 33 tons Depth and thickness of girder at centre 8" x 1 9/16 Length as per rule 30" Distance apart 8" Number and pitch of Stays in each No, 9"

Working pressure by rules 184 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,
J. Donovan Manufacturer.

Dates 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 Is the approved plan of boiler forwarded herewith Yes - Invoices
while building (During erection on board vessel - - -) See Weekly Report Total No. of visits (16)

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 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

NOV. 7-1913

