

Rpt. 5a.

## REPORT ON BOILERS.

No. 55625.

Received at London Office

TUES. 27 OCT 1908

Date of writing Report 19-10-1908 When handed in at Local Office 26 OCT 1908 Port of Newcastle on Tyne

No. in Survey held at Newcastle Date, First Survey Last Survey 26 Oct 1908  
 Reg. Book. 87 on the Steel S.S. "FANGTUM" (Number of Visits 5/5 1906) Tons Gross 500 1/4 Net 317 0  
 Master Built at Newcastle By whom built Swan Hunter & W Richardson When built 1908  
 Engines made at Newcastle By whom made Swan Hunter & W Richardson when made 1908  
 Boiler made at Newcastle By whom made D when made 1908  
 Registered Horse Power 475 470 Owners Hansa Deutsche Dampfschiffahrt Ges Port belonging to Bremen

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel J Spencer & Son.

Letter for record R. Total Heating Surface of Boilers 1100 ~~1118~~  $\phi$  Is forced draft fitted No. No. and Description of  
 Boilers One Cyl. Mult., Steel Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 4-9-08  
 No. of Certificate 7752 Can each boiler be worked separately ☒ Area of fire grate in each boiler 46-5 No. and Description of  
 safety valves to each boiler Two Spring Area of each valve 7  $\square$  Pressure to which they are adjusted 125  
 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 24 Outside Mean dia. of boilers 12-1 1/2 Length 10-3  
 Material of shell plates S Thickness 25/32 Range of tensile strength 28 3/4 + 32 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams d lap long. seams d shape Diameter of rivet holes in long. seams 7/8 Pitch of rivets 5 1/2  
 Lap of plates or width of butt straps 13 3/4 Per centages of strength of longitudinal joint rivets 83 Working pressure of shell by  
 rules 135 Size of manhole in shell 16 x 12 Size of compensating ring 7 1/2 x 25/32 plate 84 No. and Description of Furnaces in each  
 boiler 3 plain Material S Outside diameter 38 5/8 Length of plain part top 79 Thickness of plates crown 2 1/32 bottom 86  
 Description of longitudinal joint d shape No. of strengthening rings ☒ Working pressure of furnace by the rules 140 Combustion chamber  
 plates: Material S Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 25/32 Pitch of stays to ditto: Sides 7 3/4 x 7 7/8 Back 7 3/4 x 7 3/4  
 Top 7 5/8 x 7 7/8 If stays are fitted with nuts or riveted heads Nut Working pressure by rules 127 Material of stays Iron Diameter at  
 smallest part 1-45 Area supported by each stay 61 Working pressure by rules 143 End plates in steam space: Material S Thickness 3 1/32  
 Pitch of stays 19 x 16 1/2 How are stays secured d h + w Working pressure by rules 141 Material of stays S Diameter at smallest part 5-05  
 Area supported by each stay 314 Working pressure by rules 167 Material of Front plates at bottom S Thickness 15/16 Material of  
 Lower back plate S Thickness 3/4 Greatest pitch of stays as per plan Working pressure of plate by rules 120 Diameter of tubes 3 1/4  
 Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates S Thickness: Front 15/16 Back 11/16 Mean pitch of stays 10 Pitch across wide  
 water spaces 14 1/4 Working pressures by rules 154 Girders to Chamber tops: Material S Depth and thickness of  
 girder at centre 7 1/4 x 1 1/4 Length as per rule 27 Distance apart 7 7/8 Number and pitch of Stays in each 2- 7 5/8  
 Working pressure by rules 170 Superheater or Steam chest: how connected to boiler ☒ 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 ☒

FOR SV The foregoing is a correct description,

J F Jueck Manufacturer.

Dates of Survey During progress of work in shops - - - Please see report on Machinery  
 while building During erection on board vessel - - - Is the approved plan of boiler forwarded herewith ☒  
 Total No. of visits

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

The material & workmanship is good.  
 The boiler has been built & fitted under special Survey.

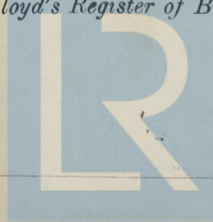
Survey Fee Please see Rep<sup>t</sup> on Mach<sup>y</sup> ... £ 2-2 : : When applied for, 19.  
 Travelling Expenses (if any) £ : : When received, 19.

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

Committee's Minute

Assigned

TUES. 27 OCT 1908



Lloyd's Register Foundation

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