

## REPORT ON BOILERS.

TUES. 24 SEP 1907

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Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of Newcastle  
 No. in Survey held at Newcastle. Date, First Survey Sept 20 1907  
 Reg. Book. Sept 20 (Number of Visits 1) Gross 4009  
 on the SS "Australia" Tons Net 2575  
 Master Schmidt Built at Newcastle By whom built Hawthorn Leslie & Co. When built 1907  
 Engines made at Newcastle By whom made Halls and Slepway & Co. when made 1907  
 Boilers made at Newcastle By whom made Halls and Slepway & Co. when made 1907  
 Registered Horse Power 1026 Owners W. R. Lundgren Port belonging to Göteborg

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencer & Sons Ltd  
 (Letter for record S.) Total Heating Surface of Boilers 1026 Is forced draft fitted no No. and Description of Boilers 1 S.C. Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 24.7.07  
 No. of Certificate 7536 Can each boiler be worked separately ✓ Area of fire grate in each boiler 35 No. and Description of safety valves to each boiler Two Spring Area of each valve 3.97 Pressure to which they are adjusted 185  
 Are they fitted with casing 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" Mean dia. of boilers 11 ft. Length 10' 6"  
 Material of shell plates S. Thickness 8" Range of tensile strength 292 x 332 Are the shell plates welded or flanged ends  
 Descrip. of riveting: cir. seams 2.7 long. seams 2.7 Diameter of rivet holes in long. seams 7/16 Pitch of rivets 6 3/4  
 Top of plates or width of butt straps 13 13/16 Per centages of strength of longitudinal joint rivets 86.8 Working pressure of shell by rules 183 plate 86.1  
 Size of manhole in shell 16" x 12" Size of compensating ring no No. and Description of Furnaces in each boiler 2 Deep Material S. Outside diameter 42 1/2 Length of plain part 1 Thickness of plates crown 1 1/4 bottom 1 1/2  
 Description of longitudinal joint weld No. of strengthening rings 4 Working pressure of furnace by the rules 192 Combustion chamber plates: Material S Thickness: Sides 3/2 Back 3/2 Top 3/2 Bottom 8" Pitch of stays to ditto: Sides 9 x 8 1/2 Back 9 x 8 1/2  
 Top 9 x 8 1/2 If stays are fitted with nuts or riveted heads no Working pressure by rules 186 Material of stays S Diameter at smallest part 1 1/2 Area supported by each stay 79.8 Working pressure by rules 229 End plates in steam space: Material S Thickness 1 1/2  
 Pitch of stays 20 x 14 How are stays secured no Working pressure by rules 180 Material of stays S Diameter at smallest part 2 1/2  
 Area supported by each stay 280 Working pressure by rules 188 Material of Front plates at bottom S Thickness 1" Material of Lower back plate S Thickness 8" Greatest pitch of stays 14" Working pressure of plate by rules 197 Diameter of tubes 3 1/4  
 Pitch of tubes 4 1/2 x 4 1/8 Material of tube plates S Thickness: Front 1 Back 3/4 Mean pitch of stays 9 x 8 1/2 Pitch across wide water spaces 13 3/4 Working pressures by rules 206 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 1/2 x 1 1/2 Length as per rule 24 3/4 Distance apart 9" Number and pitch of Stays in each 2 of 8 1/2  
 Working pressure by rules 191 Superheater or Steam chest: how connected to boiler ✓ Can the superheater be shut off and the boiler worked separately no Diameter 10" Length 10" Thickness of shell plates 1" Material S Description of longitudinal joint weld Diam. of rivet holes 7/16 Pitch of rivets 6 3/4 Working pressure of shell by rules 186 Diameter of flue 10" Material of flue plates S Thickness 1"  
 If stiffened with rings no Distance between rings 10" Working pressure by rules 186 End plates: Thickness 1" How stayed no  
 Working pressure of end plates 186 Area of safety valves to superheater no Are they fitted with casing gear no

The foregoing is a correct description,

FOR THE WALLSEND ENGINEERING CO., LIMITED. Manufacturer.

Dates of Survey { During progress of work in shops - - } Please see Machinery report  
 while { During erection on board vessel - - }  
 building

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

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

Survey Fee ... £ 2 : 0 :  
 Travelling Expenses (if any) £ :

When applied for, 21 SEP 1907  
 When received, 26.9.07

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

Committee's Minute

Assigned

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Lloyd's Register  
 Foundation  
 2020  
 2021-0124