

# REPORT ON BOILERS.

No. 12206.

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Date of writing Report 21<sup>st</sup> July 1911 When handed in at Local Office 19 Port of Hamburg  
 No. in Survey held at Flensburg Date, First Survey 15<sup>th</sup> July 1911 Last Survey 15<sup>th</sup> July 1911  
 Reg. Book. Steel L. S. "Adelaide" (Number of Visits 1) Gross 5898 Tons Net 3712  
 Master Wellhöfer Built at Flensburg By whom built Flensburger Schiffbau Ges. When built 1907  
 Engines made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1911  
 Boilers made at Flensburg By whom made Flensburger Schiffbau Ges. when made 1911  
 Registered Horse Power 720 Owners Deutsch-Austral. Dampfschiff Ges. Port belonging to Hamburg

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Phoenix A.M. Ges., Abteiler Verein

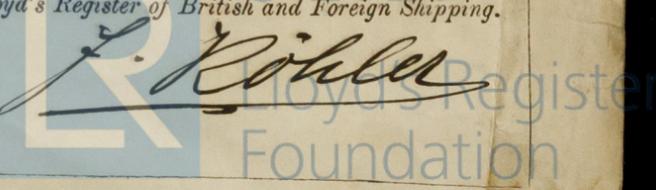
(Letter for record S) Total Heating Surface of Boilers 2085 sq. ft. Is forced draft fitted yes No. and Description of Boilers 1 Single end, multitubular Working Pressure 185 lbs Tested by hydraulic pressure to 370 lbs Date of test 1.5.11  
 No. of Certificate 144 Can each boiler be worked separately yes Area of fire grate in each boiler 49 sq. ft. No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 12.56 sq. ins. Pressure to which they are adjusted 185 lbs  
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler —  
 Smallest distance between boilers or uptakes and bunkers or ~~woodwork~~ 36" Mean dia. of boilers 13<sup>5</sup>/<sub>8</sub>" Length 12<sup>0</sup>/<sub>16</sub>"  
 Material of shell plates Steel Thickness 1.13" Range of tensile strength 28.8-32 Tons Are the shell plates welded or flanged —  
 Descrip. of riveting: cir. seams lap dbl. riv. long. seams dbl. lat. quad. riv. Diameter of rivet holes in long. seams 1.44" Pitch of rivets 18.75"  
 Lap of plates or width of butt straps 27.5 x 1.06" Per centages of strength of longitudinal joint, rivets 120.4% Working pressure of shell by rules 197.1 lbs Size of manhole in shell 16.5 x 12.5" Size of compensating ring 8.65 x 1.13 No. and Description of Furnaces in each boiler 3 Morrison's Material Steel Outside diameter 42.5" Length of plain part top 4" Thickness of plates bottom 4" crown 6" bottom 6"  
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 225.7 lbs Combustion chamber plates: Material Steel Thickness: Sides .625" Back .625" Top .625" Bottom 1" Pitch of stays to ditto: Sides 7.8 x 7.7 Back 7.8 x 7.6 Top 7.8 x 7.5 If stays are fitted with nuts or riveted heads nuts + heads Working pressure by rules 228.8 lbs Material of stays Steel Diameter at smallest part 1.37" Area supported by each stay 59.5 sq. in. Working pressure by rules 228.8 lbs End plates in steam space: Material Steel Thickness 1.01" Pitch of stays 15 x 15" How are stays secured dbl. nuts + washers Working pressure by rules 227.5 lbs Material of stays Steel Diameter at smallest part 3" Area supported by each stay 32.5 sq. ins. Working pressure by rules 326.3 lbs Material of Front plates at bottom Steel Thickness .98" Material of Lower back plate Steel Thickness .9" Greatest pitch of stays 13.37" Working pressure of plate by rules 271.4 lbs Diameter of tubes 2.75" Pitch of tubes 3.9 x 3.9" Material of tube plates Steel Thickness: Front 1" Back .9" Mean pitch of stays 7.87" Pitch across wide water spaces 13.75" Working pressures by rules 216.7 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9.8 x 1.35" Length as per rule 37" Distance apart 7.5" Number and pitch of Stays in each 3-7.8" Working pressure by rules 211.3 lbs 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 —  
 Thickness of adjusting washers of Safety valves: Starb 4/16", Port 1/16"  
 The foregoing is a correct description,  
Flensburger Schiffbau-Gesellschaft.  
W. Müller Manufacturer.

Dates of Survey: During progress of work in shops - For dates of visits and etc? Is the approved plan of boiler forwarded herewith yes  
 while building (During erection on board vessel - - -) see Main Report. Total No. of visits —

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. For General Remarks and Recommendations please see Main Report.)

Survey Fee ... £ : : When applied for, 19  
 Travelling Expenses (if any) £ : : When received, 19

Committee's Minute  
 Assigned  
 FRI. AUG. 4-1911  
M. Müller  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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