

# REPORT ON BOILERS.

No. 1632

NOV. 21 NOV 1910

Port of Bremerhaven

Received at London Office

No. in Reg. Book. 596 Survey held at Geestemünde Date, first Survey 22<sup>nd</sup> June Last Survey 17<sup>th</sup> Nov 1910  
 (Number of Visits twelve)  
 Gross 5632.66  
 Net 3545.13  
 Master P. Dierichsen Built at Geestemünde By whom built Joh. C. Tecklenborg A.G. When built 1910  
 Engines made at Geestemünde By whom made Joh. C. Tecklenborg A.G. when made 1910  
 Boilers made at Geestemünde By whom made Joh. C. Tecklenborg A.G. when made 1910  
 Registered Horse Power 517 Owners D. D. Ges. Hansa Port belonging to Bremen

**MULTITUBULAR BOILERS** ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel Friedr. Krupp  
 (Letter for record 2) Total Heating Surface of Boilers 10762 Is forced draft fitted No No. and Description of Boilers One cylindrical multitubular steel Working Pressure 1218 Tested by hydraulic pressure to 1928 Date of test 26.7.10  
 No. of Certificate 127 Can each boiler be worked separately Yes Area of fire grate in each boiler 452 No. and Description of safety valves to each boiler 2 spring valves Area of each valve 12.22 Pressure to which they are adjusted 1218  
 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 12" Mean dia. of boilers 12' 3/4" Length 10'  
 Material of shell plates S.M. steel Thickness 5/16 Range of tensile strength 26.7-30.5 Are the shell plates welded or flanged flanged  
 Descrip. of riveting: cir. seams double long. seams treble Diameter of rivet holes in long. seams 15/16 Pitch of rivets 6 9/16  
 Lap of plates or width of butt straps 14 2/32 Per centages of strength of longitudinal joint rivets 90.8% Working pressure of shell by plate 85.5%  
 rules 1388 Size of manhole in shell 11 1/2 x 15 5/16 Size of compensating ring 7 5/8 x 5 1/4 No. and Description of Furnaces in each boiler three plain Material S.M. steel Outside diameter 27 7/16 Length of plain part 38 7/8 Top 7' 2 1/16 Thickness of plates crown 5/8" bottom 5/8"  
 Description of longitudinal joint welded No. of strengthening rings None Working pressure of furnace by the rules 1298 Combustion chamber plates: Material S.M. steel Thickness: Sides 3 7/16" Back 1 1/2" Top 3 7/16" Bottom 5 9/16" Pitch of stays to ditto: Sides 8 5/8" Back 7 5/16"  
 Top 8 5/8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 1518 Material of stays Iron Diameter at smallest part 1 3/8 Area supported by each stay 49 1/2 Working pressure by rules 2904 End plates in steam space: Material S.M. steel Thickness 5/16  
 Pitch of stays 13 1/4 x 15 5/16 How are stays secured nuts Working pressure by rules 1354 Material of stays S.M. steel Diameter at smallest part 2 3/16  
 Area supported by each stay 217 1/2 Working pressure by rules 1588 Material of Front plates at bottom S.M. steel Thickness 7/8" Material of Lower back plate S.M. steel Thickness 2 3/32 Greatest pitch of stays 7 5/16 Working pressure of plate by rules 186 Diameter of tubes 3 1/4  
 Pitch of tubes 4 7/16 x 4 1/2 Material of tube plates S.M. steel thickness: Front 7/8" Back 5/16" Mean pitch of stays 8 1/4 1/16 Pitch across wide water spaces 14 3/16 Working pressures by rules 1408 Girders to Chamber tops: Material S.M. steel Depth and thickness of girder at centre 7 1/16 x 1/2 Length as per rule 28 3/8 Distance apart 7 7/8 Number and pitch of Stays in each 2 à 8 5/8"  
 Working pressure by rules 2104 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

**VERTICAL DONKEY BOILER** — No. Description Manufacturers of steel  
 Made at By whom made When made Where fixed Working pressure  
 tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves  
 No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler  
 Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength  
 Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets  
 Lap of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates  
 Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace  
 Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown plates  
 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates  
 Thickness of water tubes

The foregoing is a correct description,  
**JOH. C. TECKLENBORG A.G.**  
 Schiffswerft und Maschinenfabrik  
 Manufacturer.

Dates of Survey while building: During progress of work in shops -- 22.6/8.7/18.7/26.7/2.8/20.8  
 During erection on board vessel --- 24.9/29.9/11.10/17.10/12.11/17.11.1910  
 Total No. of visits 12  
 Is the approved plan of main boiler forwarded herewith with  
 " " " donkey " Report of 1572

**GENERAL REMARKS**

(State quality of workmanship, opinions as to class, &c.)

*This boiler has been built under special Survey in accordance with the approved tracing of good material, manufactured by approved works and tested as per rule by the Surveyors at Disseldorf.*

*The workmanship is good, the boiler has been tested according to German Law by hydraulic pressure up to 192 lbs per sq. in. and found quite tight, showing no alteration of form, under steam it is quite tight and the safety valves lift freely at 121 lbs per sq. in.*

*For particulars of spare gear etc please see Report on Main boiler and machinery.*

Write "Bottom Sheer Strake" and "Inner Deck Sheer Strake" opposite the corresponding letters

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The amount of Entry Fee...	£	When applied for.
Special ... ..	£	19
Donkey Boiler Fee ... ..	£	When received.
Travelling Expenses (if any) £		19

*See Report on Machinery*

Committee's Minute TUE. 22 NOV 1910

Assigned

*J. Thomsen.*

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



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Form No. 1A.

(The Surveyors are requested not to write on or below the ...)