

## 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* 19 *10*  
 (Number of Visits *Twelve*) Gross *5632.66* Tons 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 *10764* Is forced draft fitted *No* No. and Description of Boilers *One cylindrical multitubular steel* Working Pressure *121 lb* Tested by hydraulic pressure to *192 lb* Date of test *26.7.10*  
 No. of Certificate *127* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *45.2* No. and Description of safety valves to each boiler *2 spring valves* Area of each valve *12.2* Pressure to which they are adjusted *121 lb*  
 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 *5/16"* 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 rules *138 lb* 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 7/8"* Length of plain part *38 7/8" plain* Top *7' 2 1/4"* 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 *129 lb* Combustion chamber plates: Material *S.M. steel* Thickness: Sides *3 7/8"* Back *1 1/2"* Top *3 7/8"* 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 *151 lb* Material of stays *Iron* Diameter at smallest part *1 3/8"* Area supported by each stay *49.4* Working pressure by rules *290 lb* End plates in steam space: Material *S.M. steel* Thickness *5/16"* Pitch of stays *13 1/4 x 15 5/8"* How are stays secured *nuts* Working pressure by rules *135 lb* Material of stays *S.M. steel* Diameter at smallest part *2 3/16"* Area supported by each stay *217.4* Working pressure by rules *158 lb* Material of Front plates at bottom *S.M. steel* Thickness *7/8"* Material of Lower back plate *S.M. steel* Thickness *2 3/8"* Greatest pitch of stays *7 5/16"* Working pressure of plate by rules *186 lb* 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"* Pitch across wide water spaces *14 3/16"* Working pressures by rules *140 lb* 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 at 8 5/8"* Working pressure by rules *210 lb* 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 --  
 During erection on board vessel --  
 Total No. of visits

*22.6/8.7/18.7/26.7/2.8/20.8/24.9/29.9/11.10/17.10/12.11/17.11.1910*  
*12*

Is the approved plan of main boiler forwarded herewith *with*

" " " donkey " " " "

Repeat of 1572

W32-0104



**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 Surveyor at Disseldorf.*

*The workmanship is good, the boiler has been tested according to German law by hydraulic pressure up to 192 lb. 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 lb. per sq. in.*

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

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

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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Foundation