

REPORT ON BOILERS.

No. 1462

Port of *Bremerhaven*

Received at London Office

JUN 1 1909

No. in Survey held at *Geestmünde*

Date, first Survey *2nd Dec. 1908* Last Survey *27th May 1909*

Reg. Book.

(Number of Visits *20*)

in *Sept.* on the *steel spardeck steamer* *Minneburg*

Tons { Gross *4748.41*
Net *3005.32*

Master *J. Scllerich* Built at *Geestmünde* By whom built *Joh. C. Tecklenborg A.G.* When built *1909*

Engines made at *Geestmünde* By whom made *Joh. C. Tecklenborg A.G.* when made *1909*

Boilers made at *Geestmünde* By whom made *Joh. C. Tecklenborg A.G.* when made *1909*

Registered Horse Power *546* Owners *D. D. Ges. Hansa* Port belonging to *Bremen*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel *Thyssen & Co.*

(Letter for record *r*) Total Heating Surface of Boilers *10540* Is forced draft fitted *No* No. and Description of

Boilers *One multitubular steel boiler* Working Pressure *1210* Tested by hydraulic pressure to *1920* Date of test *5.4.09*

No. of Certificate *97* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *450* No. and Description of

safety valves to each boiler *two spring valves* Area of each valve *12.180* Pressure to which they are adjusted *1210*

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 *15"* 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 *dbl. overlap* long. seams *tbl. dbl. butt* Diameter of rivet holes in long. seams *15/16"* Pitch of rivets *6 1/4"*

Per centages of strength of longitudinal joint rivets *102.1%* Working pressure of shell by rules *1380* Size of manhole in shell *11 1/2" x 15 1/4"* Size of compensating ring *8 1/8" x 5 1/4"*

boiler *three plain* Material *S.M. steel* Outside diameter *37 1/4"* Length of plain part *7' 2 1/4"* Thickness of plates *5/16"* No. and Description of Furnaces in each

Description of longitudinal joint *welded* No. of strengthening rings *—* Working pressure of furnace by the rules *1260* Combustion chamber

plates: Material *S.M. steel* Thickness: Sides *3/16"* Back *1/32"* Top *3/16"* Bottom *5/16"* 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 *1510* Material of stays *iron* Diameter at

smallest part *1 3/8"* Area supported by each stay *620* Working pressure by rules *1690* End plates in steam space: Material *S.M. steel* Thickness *5/16"*

Pitch of stays *13 3/4" x 15 3/4"* How are stays secured *nuts* Working pressure by rules *1260* Material of stays *S.M. steel* Diameter at smallest part *2 3/16"*

Area supported by each stay *2170* Working pressure by rules *1670* Material of Front plates at bottom *S.M. steel* Thickness *5/16"* Material of

Lower back plate *S.M. steel* Thickness *23/32"* Greatest pitch of stays *7 5/16"* Working pressure of plate by rules *1940* Diameter of tubes *3 1/4"*

Pitch of tubes *4 1/4" x 4 1/2"* Material of tube plates *S.M. steel* Thickness: Front *5/16"* Back *5/16"* Mean pitch of stays *8 1/8"* Pitch across wide

water spaces *14"* Working pressures by rules *1140* Girders to Chamber tops: Material *S.M. steel* Depth and thickness of

girder at centre *7 1/4" x 1/2"* Length as per rule *28 3/8"* Distance apart *7 7/8"* Number and pitch of Stays in each *2 @ 8 5/8"*

Working pressure by rules *1400* Superheater or Steam chest: how connected to boiler *Can the superheater be shut off and the boiler worked*

separately

holes Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

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 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. Manufacturer.

Dates of Survey while building { During progress of work in shops - - - } *2.12./15.12.08/5.1./10.1./27.1./30.1/4.2./19.2/17.2/27.2/4.3/*
{ During erection on board vessel - - - } *18.3/31.3/5.4/24.4/28.4/8.5/14.5/22.5/27.5.09.*
Total No. of visits *20*

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

" " " donkey " " " "

Lloyd's Register Foundation

W1096-0144

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

This donkey boiler has been built under special Survey of very good material manufactured at approved works and tested as per rule.

All dimensions are in compliance with the approved tracing
The boiler has been tested by hydraulic pressure up to 192 lb, found quite tight
Under steam it is also tight

The safety valves have been adjusted 22.5.09 and left freely at 121 lb.
The thickness of the adjusting washers is Port valve $3\frac{5}{16}$ " Starbd. valve $9\frac{1}{16}$ "

For further particulars please see Report No. 1462 on Main engines
This boiler is in my opinion fully eligible to be included in the class of machinery and boilers in this vessel.

Certificate (if required) to be sent to the Registrar of Shipping (The Registrar is not to write on or below the space for Committee's Minute.)

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

£ Paid on Main boiler

J. Thomsen

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

Committee's Minute

WED. 2 JUN 1909

Assigned

see minute on attached

ref. Rtn 1462



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