

REPORT ON BOILERS.

No. 1204.

MUN. 5 NOV 1906

Port of Bremerhaven

Received at London Office

19

No. in Survey held at

Geestemünde

Date, first Survey 30th January

Last Survey 16th August 1906

Reg. Book.

(Number of Visits eight)

Gross 5584
Tons Net 3592

in Supt. on the Donkey Boiler of the S. S. Rotenfels

Master von Freden Built at Geestemünde By whom built Joh. C. Tecklenborg A. G. When built 1906

Engines made at Geestemünde By whom made Joh. C. Tecklenborg A. G. when made 1906

Boilers made at Geestemünde By whom made Joh. C. Tecklenborg A. G. when made 1906

Registered Horse Power 504 Owners V. D. Ges. Hansa Port belonging to Bremen

MULTITUBULAR BOILERS ~~MADE, MANUFACTURED OR~~ DONKEY.—Manufacturers of Steel Thyssen & Co.

(Letter for record A) Total Heating Surface of Boilers 1054 Is forced draft fitted No No. and Description of

Boilers one cylindrical multitubular Working Pressure 121 Tested by hydraulic pressure to 192 Date of test 16.8.06

No. of Certificate 81 Can each boiler be worked separately Yes Area of fire grate in each boiler 45 No. and Description of

safety valves to each boiler 2 imp. spring valves Area of each valve 12.18 Pressure to which they are adjusted 121

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 25 Mean dia. of boilers 12' 0 3/4" Length 10' 0"

Material of shell plates S.M. steel Thickness 5 1/4" Range of tensile strength 26.7-30.5 Are the shell plates welded or flanged flanged

Descrip. of riveting: cir. seams double long. seams double Diameter of rivet holes in long. seams 15 1/16" Pitch of rivets 6 9/16"

Gap of plates or width of butt straps 14 7/8" Per centages of strength of longitudinal joint rivets 102% Working pressure of shell by plate 85.5%

rules 133 Size of manhole in shell 11 1/2 X 15 1/16" Size of compensating ring 9 3/4 X 5 1/4" No. and Description of Furnaces in each

boiler 3 plain furnaces Material S.M. steel Outside diameter 38 1/16" Length of plain part top 82 3/8" Thickness of plates bottom 85 7/8" crown 5 1/2" bottom 5 1/2"

Description of longitudinal joint welded No. of strengthening rings — Working pressure of furnace by the rules 121 Combustion chamber

plates: Material S.M. steel Thickness: Sides 3 7/16" Back 1 7/16" Top 3 7/16" Bottom 5 1/4" Pitch of stays to ditto: Sides 8 5/8" Back 7 7/8"

Top 8 5/8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 143 Material of stays S.M. steel Diameter at

smallest part 1 1/4" Area supported by each stay 68 Working pressure by rules 144 End plates in steam space: Material S.M. steel Thickness 5 1/4"

Pitch of stays 15 3/4" How are stays secured nuts Working pressure by rules 138 Material of stays S.M. steel Diameter at smallest part 2 3/16"

Area supported by each stay 217 Working pressure by rules 177 Material of Front plates at bottom S.M. steel Thickness 5 3/4" Material of

Lower back plate S.M. steel Thickness 2 3/4" Greatest pitch of stays 7 7/8" Working pressure of plate by rules 165 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" Material of tube plates S.M. steel Thickness: Front 5 3/4" Back 5 1/4" Mean pitch of stays 4 1/32" Pitch across wide

water spaces 14" Working pressures by rules 124 Girders to Chamber tops: Material S.M. steel Depth and thickness of

girder at centre 7 1/16 X 1 1/2" Length as per rule 28 3/8" Distance apart 7 7/8" Number and pitch of Stays in each 2 X 8 5/8"

Working pressure by rules 195 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 — 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 — Stayed by — Diameter of uptake — Thickness of uptake plates — Thickness of water tubes —

The foregoing is a correct description, —

Schiffswerft und Maschinenfabrik. Manufacturer.

Georg W. Clausen

Dates of Survey while building 30/1. 24/4. 8/5. 18/5. 8/6. 20/6. 6/7. 16/8. 1906

During progress of work in shops —

During erection on board vessel —

Total No. of visits 8

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " Yes

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

This Boiler has been built under special Survey of very good material, manufactured by approved works and tested as per rule.

The Workmanship is good and all dimensions are in compliance with the approved tracings.

The Boiler has been tested by hydraulic pressure of 192^{lbs}, as per German law and special request of the owners, it was found quite tight, showing no alteration of form.

Under steam it is also tight and the safety valves lift freely at 121^{lbs}. For further particulars please see Report N. 1204 on machinery and main boilers.

The safety valves have been adjusted 2¹/₁₀.06

Thickness of adjusting washers: Foreward valve 4⁷/₁₆". After valve 4⁸/₁₆".

Surveyor Bremerhaven

Certificate (if required) to be sent to Committee's Minute.

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	2	:	19
Donkey Boiler Fee ...	£	:	:	When received.
Travelling Expenses (if any) £	:	:	:	19

TUES. 6 NOV 1906
TUES. 9 NOV 1906

Committee's Minute

Assigned

J. Thomsen

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



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Foundation