

REPORT ON BOILERS.

No. 1650

Date of writing Report 9th Jan. 1911 When handed in at Local Office

Received at London Office

Port of Bremerhaven

WED. 11 JAN 1911

No. of Survey held at Seestermünde

Date, First Survey 18th Jan 1910 Last Survey 9th January 1911

Reg. Book.

(Number of Visits 15)

Gross 5034.70
Tons Net 3152.83

on the donkey boiler of the S. S. Anstetturm

Master F. Eggert Built at Seestermünde By whom built Joh. C. Tecklenborg A. G. When built 1910

Engines made at Seestermünde By whom made Joh. C. Tecklenborg A. G. when made 1910

Boilers made at Seestermünde By whom made Joh. C. Tecklenborg A. G. when made 1910

Registered Horse Power 476 Owners V. V. Ges. Hansa Port belonging to Bremen

MULTITUBULAR BOILERS — ~~MAN, MONTAGN~~ OR DONKEY. — Manufacturers of Steel F. Thyssen(Letter for record 2) Total Heating Surface of Boilers 1076 \square Is forced draft fitted No. and Description ofBoilers multitubular cylindrical Working Pressure 121 $\frac{1}{2}$ Tested by hydraulic pressure to 192 $\frac{1}{2}$ Date of test 21.11.10No. of Certificate 129 Can each boiler be worked separately Yes Area of fire grate in each boiler 45 \square No. and Description ofsafety valves to each boiler 1 double spring valve Area of each valve 12.18 \square Pressure to which they are adjusted 121 $\frac{1}{2}$

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 $\frac{3}{4}$ " Length 10'Material of shell plates S. M. steel Thickness 5 $\frac{1}{4}$ " Range of tensile strength 26.7-36.5 Are the shell plates welded or flanged flangedDescrip. of riveting: cir. seams double long. seams treble Diameter of rivet holes in long. seams 1 $\frac{1}{4}$ " Pitch of rivets 6 $\frac{1}{2}$ "Lap of plates or width of butt straps 14 $\frac{3}{4}$ " Per centages of strength of longitudinal joint rivets 90.8% Working pressure of shell byrules 138 $\frac{1}{2}$ Size of manhole in shell 11 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ " Size of compensating ring 7 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ " plate 85.5% No. and Description of Furnaces in eachboiler three plain Material S. M. steel Outside diameter 37 $\frac{1}{4}$ " Length of plain part top — Thickness of plates crown 2 $\frac{1}{2}$ " bottom 2 $\frac{1}{2}$ "Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 129 $\frac{1}{2}$ Combustion chamberplates: Material S. M. steel Thickness: Sides 3 $\frac{1}{4}$ " Back 1 $\frac{1}{2}$ " Top 3 $\frac{1}{4}$ " Bottom 1 $\frac{1}{2}$ " Pitch of stays to ditto: Sides 8 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ " Back 7 $\frac{1}{2}$ " x 8 $\frac{1}{2}$ "Top 8 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ " stays are fitted with nuts or riveted heads nuts Working pressure by rules 151 $\frac{1}{2}$ Material of stays iron Diameter atsmallest part 1 $\frac{3}{8}$ " Area supported by each stay 49 \square Working pressure by rules 190 $\frac{1}{2}$ End plates in steam space: Material S. M. steel Thickness 4 $\frac{1}{4}$ "Pitch of stays 13 $\frac{1}{4}$ " x 15 $\frac{1}{4}$ " How are stays secured nuts Working pressure by rules 135 $\frac{1}{2}$ Material of stays S. M. steel Diameter at smallest part 2 $\frac{3}{8}$ "Area supported by each stay 217 \square Working pressure by rules 198 $\frac{1}{2}$ Material of Front plates at bottom S. M. steel Thickness 7 $\frac{1}{2}$ " Material ofLower back plates S. M. steel Thickness 2 $\frac{3}{4}$ " Greatest pitch of stays 7 $\frac{1}{2}$ " x 13" Working pressure of plate by rules 186 $\frac{1}{2}$ Diameter of tubes 3 $\frac{1}{4}$ "Pitch of tubes 4 $\frac{1}{4}$ " x 4 $\frac{1}{2}$ " Material of tube plates S. M. steel Thickness: Front 7 $\frac{1}{2}$ " Back 5 $\frac{1}{4}$ " Mean pitch of stays 8 $\frac{1}{2}$ " x 12" Pitch across widewater spaces 14 $\frac{3}{4}$ " Working pressures by rules 140 $\frac{1}{2}$ Girders to Chamber tops: Material S. M. steel Depth and thickness ofgirder at centre 7 $\frac{1}{4}$ " x 12 $\frac{1}{2}$ " x 2 Length as per rule 28 $\frac{1}{2}$ " Distance apart 27 $\frac{1}{2}$ " Number and pitch of Stays in each 2 x 8 $\frac{1}{2}$ "Working pressure by rules 210 $\frac{1}{2}$ 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

The foregoing is a correct description,

JOH. C. TECKLENBORG A. G. Manufacturer.

Dates of Survey During progress of 18.6/3.8/18.8/2.9/16.9/11.10/22.10 Is the approved plan of boiler forwarded herewith Yes

while building During erection on 8.11/17.11/21.11/17.12/26.12/29.12/30.12.1910/9.1.1911 Total No. of visits 15.

board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This boiler has been constructed under

special Survey in accordance with the rules and approved plan of good material and good workmanship. It has been tested by hydraulic pressure of 192 $\frac{1}{2}$ found quite tight, showing no alteration of form, under steam it is also tight and the safety valves lift freely at 121 $\frac{1}{2}$ p.s.i., it is therefore eligible in my opinion to be classed as contemplated.

For year gear etc. please see Report on machinery

Survey Fee ... £ ... When applied for, 19

Travelling Expenses (if any) £ ... : : When received, 19

F. Thomsen

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

Committee's Minute

FRI. 13 JAN 1911

Assigned



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Foundation
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