

## REPORT ON BOILERS.

No. 103.

Received at London Office

THU. MAR. 28. 1912

Date of writing Report 26th March 1912 When handed in at Local Office

191 Port of Bremen

No. in Survey held at

Geestemünde

Date, First Survey 6th November 1911

Last Survey

30th March 1912

1912

Reg. Book.

Sup 56 on the

Steel Le Gr. Düsseldorf

(Number of Visits)

Tons

Gross 5877

Net 3728

Master

J. Schmidt

Built at

Geestemünde

By whom built

Joh. C. Tecklenborg &amp; Co.

When built

1912

Engines made at

Geestemünde

By whom made

Joh. C. Tecklenborg &amp; Co.

When made

1912

Boilers made at

Geestemünde

By whom made

Joh. C. Tecklenborg &amp; Co.

When made

1912

Registered Horse Power

697

Owners

Dutch Australische Dampsch. Co.

Port belonging to

Hamburg.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Krupp, Rheinische Stahlwerke, Langenfeld, Hüttenwerke, Geestemünde, etc.

(Letter for record)

5

Total Heating Surface of Boilers

1940 sq. ft.

Is forced draft fitted

Yes

No. and Description of

Boilers

1 cylindrical multitubular

Working Pressure

206 lb

Tested by hydraulic pressure to

412 lb

Date of test

15.12.11

No. of Certificate

16

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

43 sq. ft.

No. and Description of

safety valves to each boiler

2 spring loaded

Area of each valve

9.85 sq. in.

Pressure to which they are adjusted

206 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

23"

Mean dia. of boilers

18' 9 23/32"

Length

10' 5 13/16"

Material of shell plates

S.M. Steel

Thickness

15/32"

Range of tensile strength

27.9-32.4

Are the shell plates welded or flanged

Flanged

Descrip. of riveting: cir. seams

double

long. seams

quadruple

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

16' 1/8"

Lap of plates or width of butt straps

26 1/2"

Per centages of strength of longitudinal joint

rivets

106.5%

Working pressure of shell by

plate

91.7%

rules

2 1/16"

Size of manhole in shell

14 1/2" x 15 5/16"

Size of compensating ring

37 13/16" x 15 5/32"

No. and Description of Furnaces in each

boiler

3 Morison

Material

S.M. Steel

Outside diameter

37 13/32"

Length of plain part

top

6 1/16"

Thickness of plates

crown

9 1/16"

bottom

Description of longitudinal joint

Welded

No. of strengthening rings

—

Working pressure of furnace by the rules

257 lb

Combustion chamber

plates: Material

S.M. Steel

Thickness: Sides

43/64"

Back

2 1/32"

Top

43/64"

Bottom

6 1/64"

Pitch of stays to ditto: Sides

7 1/2" x 6 3/4"

Back

7 1/2" x 6 1/16"

T

1/16" x 7 1/4"

stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

271 lb

Material of stays

S.M. Steel

Diameter at

smallest part

19/16"

Area supported by each stay

47.7 sq. in.

Working pressure by rules

232 lb

End plates in steam space: Material

S.M. Steel

Thickness

13/32"

Pitch of stays

14 5/8" x 15 1/2"

How are stays secured

by nuts

Working pressure by rules

235 lb

Material of stays

S.M. Steel

Diameter at smallest part

2 13/16"

Area supported by each stay

229 sq. in.

Working pressure by rules

268 lb

Material of Front plates at bottom

S.M. Steel

Thickness

13/32"

Material of

Lower back plate

S.M. Steel

Thickness

6 3/4"

Greatest pitch of stays

7 1/4" 13/8"

Working pressure of plate by rules

244 lb

Diameter of tubes

2 3/4"

Pitch of tubes

3 15/16"

Material of tube plates

S.M. Steel

Thickness: Front

13/32"

Back

6 1/64"

Mean pitch of stays

9 13/16"

Pitch across wide

water spaces

13 3/4"

Working pressures by rules

216 lb

Girders to Chamber tops: Material

S.M. Steel

Depth and thickness of

girder at centre

9 1/16" x 4 3/4"

Length as per rule

32 1/2"

Distance apart

7 1/16"

Number and pitch of Stays in each

3-7 1/16"

Working pressure by rules

213 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,

Schmidt und Maschineng. Manufacturer.

Dates

During progress of

6th November 30th November 15th December

of Survey

work in shops

while

During erection on

Febr. 6th March 8, 20, 25.

building

board vessel

Total No. of visits

7

Is the approved plan of main boiler forwarded herewith

Yes

"

"

"

donkey

"

"

"

"

"

"

Lloyd's Register  
W302-0072  
Foundation

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

*See Report on Machinery.*

*Boorman Office.*

Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee

Special .. .. £

Donkey Boiler Fee .. .. £

Travelling Expenses (if any) £

When applied for,

.....19.....

When received,

.....19.....

Committee's Minute

FRI. MAR. 29 1912

Assigned

*G. H. G. P. A. M.*  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation