

REPORT ON BOILERS.

No. 10303

Received at London Office

FRI. JAN. 19. 1917

Date of writing Report 11 November 1916. When handed in at Local Office

191

Port of Rotterdam

No. in Survey held at

Bosch.

Date, First Survey

29 November

Last Survey

June 26

1916

Reg. Book.

on the

Steel Screw Steamer "Proland"

(Number of Visits

8)

Gross

Net

Master

Built at

Hendrik J. de Groot

By whom built

Janssen, Lams.

When built

1916

Engines made at

Bolnes.

By whom made

N.V. Machinefabriek Bolnes

When made

1916

Boilers made at

Bosch.

By whom made

Van der Schelde

When made

1916

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Phoenix & Co. Ltd. London

(Letter for record

S)

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

Boilers

2 Horizontal Marine boilers

Working Pressure

180 lb.

Tested by hydraulic pressure to

560 lb.

Date of test

13.7.16

No. of Certificate

613

Can each boiler be worked separately

Area of fire grate in each boiler

44 1/2 sq ft

No. and Description of

safety valves to each boiler

Two Spring loaded

Area of each valve

4 sq in

Pressure to which they are adjusted

180 lbs

Are they fitted with easing gear

Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

None

Smallest distance between boilers or uptakes and bunkers or woodwork

over 18 in

Mean dia. of boilers

12 1/2 in

Length

10 1/2 in

Material of shell plates

Steel

Thickness

1 3/32 in

Range of tensile strength

28/32 ton

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

lap butt riv.

long. seams

lap butt riv.

Diameter of rivet holes in long. seams

1 1/16 in

Pitch of rivets

4 1/16 in

Lap of plates or width of butt straps

18 1/2 in

Per centages of strength of longitudinal joint

rivets 89%

Working pressure of shell by

plate 85%

rules

184 lb.

Size of manhole in shell

12 in x 16 in

Size of compensating ring

8 1/2 in x 1 in

No. and Description of Furnaces in each

boiler

2 horizontal

Material

Steel

Outside diameter

4 1/2 in

Length of plain part

top

Thickness of plates

crown 5/8 in

bottom 1 in

Description of longitudinal joint

Welded

No. of strengthening rings

Working pressure of furnace by the rules

184 lb.

Combustion chamber

plates: Material

Steel

Thickness: Sides

1 1/16 in

Back

1 1/16 in

Top

1 in

Pitch of stays to ditto: Sides

8 x 4 1/2 in

Back

8 x 4 1/2 in

Top

8 x 8 in

If stays are fitted with nuts or riveted heads

nut & wash

Working pressure by rules

202 lb.

Material of stays

Steel

Diameter at

smallest part

1 1/2 in

Area supported by each stay

60 sq in

Working pressure by rules

146 lb.

End plates in steam space: Material

Steel

Thickness

3/4 + 1/8 in

Pitch of stays

8 x 1 1/4 in

How are stays secured

nut & wash

Working pressure by rules

240 lb.

Material of stays

Steel

Diameter at smallest part

6 1/2 in

Area supported by each stay

306 sq in

Lower back plate

Steel

Thickness

1 3/16 in

Greatest pitch of stays

1 1/2 x 4 1/4 in

Working pressure of plate by rules

195 lb.

Diameter of tubes

3 1/4 in

Pitch of tubes

4 1/2 x 4 1/2 in

Material of tube plates

Steel

Thickness: Front

1 in

Back

1 1/16 in

Mean pitch of stays

1 1/2 x 8 1/4 in

Pitch across wide

water spaces

13 1/4 in

Working pressures by rules

190 lb.

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

8 1/2 x 2 x 1/4 in

Length as per rule

32 in

Distance apart

Working pressure by rules

184 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

End plates: Thickness

How stayed

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

Koninglijke Maatschappij „De Schiedamsche Schiedamsche Werfhuizenfabriek

Manufacturer.

Dated 11 November 1916

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

8

Dates

During progress of

work in shops - - -

November 29, Jan 5, Feb 21, March 15, April 15

Is the approved plan of boiler forwarded herewith

Yes

while

During erection on

board vessel - - -

May 17, 24, June 26

Total No. of visits

8

building

board vessel - - -

May 17, 24, June 26

Total No. of visits

8

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

The boilers have been made in accordance with the approved plan and Secretary's letter, material tested as required and workmanship good.

Survey Fee

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£ 129.60

When applied for

14/11

1916

Travelling Expenses (if any)

£ 27.-

When received

23/11

1916

Committee's Minute

TUE JAN. 23. 1917

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register

W459+0087n