

REPORT ON BOILERS.

No. 8282.

Received at London Office

2 JUL 1930

Writing Report

20/6

1930

When handed in at Local Office

192

Port of

Copenhagen.

Survey held at

Nakskov.

Date, First Survey

24/2 1930

Last Survey

11/6

1930

On the

S.S. "DAR POMORZA" ex "COLBERT"

(Number of Visits)

7

Gross
Tonnage

Built at

Hamburg

By whom built

Blohm & Voß

Yard No.

When built

1909

Made at

Hamburg

By whom made

Maschinenfabrik Hamburg-Kimberg

Engine No.

391580

When made

1930

Made at

Hamburg

By whom made

Blohm & Voß

Boiler No.

677

When made

1909

Horse Power

108

Owners

Government of Poland

Port belonging to

Gdynia.

L TITUBULAR BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.

Manufacturers of Steel

Rheinische Stahlwerke, Duisburg

(Letter for Record S.)

Heating Surface of Boilers

162. " 0' /

Is forced draught fitted

No

Coal or Oil fired

coal

Description of Boilers

One off, horizontal, single ended, return tubular

Working Pressure

7 kg/cm²

Tested by hydraulic pressure to

12 kg/cm²

Date of test

21/5 30

No. of Certificate

✓

Can each boiler be worked separately

Area of Firegrate in each Boiler

8.07 m²

No. and Description of safety valves to each boiler

2 off, direct spring loaded

Pressure of each set of valves per boiler

per Rule 3.38 m²as fitted 3.38 m²

Pressure to which they are adjusted

100 lbs.

Are they fitted with easing gear

yes

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

No main boiler

Least distance between boilers or uptakes and bunkers

6'

Is oil fuel carried in the double bottom under boilers

No

Least distance between shell of boiler and tank top plating

No tank under boiler

Is the bottom of the boiler insulated

yes

Least internal dia. of boilers

1600 mm

Length

1638 mm

Shell plates: Material

S.M. steel

Tensile strength

40-46 kg/mm²

Thickness

12 mm

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

lap, single

Seams

lap, 266 rivets

Diameter of rivet holes in

circ. seams 23 mm

long. seams 23 mm

Pitch of rivets

56 mm

Percentage of strength of circ. end seams

plate 58.9

rivets 55.6

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 71.3

rivets 77.2

Working pressure of shell by Rules

9.13 kg/cm²

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

one off, plain

Material

S.M. steel

Tensile strength

36-41 kg/mm²

Smallest outside diameter

710 mm

Length of plain part

top 1684 mm

bottom

Thickness of plates

crown 12 mm

Description of longitudinal joint

lap, single riv.

Dimensions of stiffening rings on furnace or c.c. bottom

✓

Working pressure of furnace by Rules

7.21 kg/cm²

Plates in steam space: Material

S.M. steel

Tensile strength

36-41 kg/mm²

Thickness

19 mm

Pitch of stays

No stays

Are stays secured

Girders across end plates

Working pressure by Rules

13.65 kg/cm²

End plates: Material

front S.M. steel

back S.M. steel

Tensile strength

36-41 kg/mm²

Thickness

19 mm

Pitch of stay tubes in nests

ca. 255 mm

Pitch across wide water spaces

240 mm

Working pressure

front 9.85 kg/cm²

back

Girders to combustion chamber tops: Material

No comb. chamber

Tensile strength

✓

Depth and thickness of girder

Centre

✓

Length as per Rule

✓

Distance apart

✓

No. and pitch of stays

Each

✓

Working pressure by Rules

✓

Combustion chamber plates: Material

✓

Tensile strength

✓

Thickness: Sides

✓

Back

✓

Top

✓

Bottom

✓

Pitch of stays to ditto: Sides

✓

Back

✓

Top

✓

Are stays fitted with nuts or riveted over

✓

Working pressure by Rules

✓

Front plate at bottom: Material

S.M. steel

Tensile strength

36-41 kg/mm²

Thickness

19 mm

Pitch of stays at wide water space

d = 210 mm

Lower back plate: Material

S.M. steel

Tensile strength

36-41 kg/mm²

Thickness

19 mm

Are stays fitted with nuts or riveted over

✓

Working Pressure

8.78 kg/cm²

Main stays: Material

✓

Tensile strength

✓

Diameter

At body of stay, or over threads

✓

No. of threads per inch

✓

Area supported by each stay

✓

Working pressure by Rules

✓

Screw stays: Material

✓

Tensile strength

✓

Diameter

At turned off part, or over threads

✓

No. of threads per inch

✓

Area supported by each stay

✓

Working pressure by Rules ☒ Are the stays drilled at the outer ends ☒ Margin stays: Diameter ☒ At turned off part, ☒ or over threads ☒

No. of threads per inch ☒ Area supported by each stay ☒ Working pressure by Rules ☒

Tubes: Material *stee* External diameter ☒ Plain *76 mm* Thickness ☒ *3 mm* No. of threads per inch *10*

Pitch of tubes *102 x 102 mm* Working pressure by Rules *10 kg/cm²* Manhole compensation: Size of ☒

shell plate *400 x 300 mm* Section of compensating ring *125 x 26 mm* No. of rivets and diameter of rivet holes *32 of 23 mm*

Outer row rivet pitch at ends *120 mm* Depth of flange if manhole flanged ☒ Steam Dome: Material *S.M. steel*

Tensile strength *36-41 kg/mm²* Thickness of shell *11 mm* Description of longitudinal joint *lap, single riv.*

Diameter of rivet holes *23 mm* Pitch of rivets *56 mm* Percentage of strength of joint ☒ Plate *58.8*

Internal diameter *400 mm* Working pressure by Rules *21.55 kg/cm²* Thickness of crown *11 mm* Rivets *66.8*

stays ☒ Inner radius of crown *389 mm* Working pressure by Rules *19.65 kg/cm²* No. and dia. *27/10*

How connected to shell *flanged, single riv.* Size of doubling plate under dome *75 x 25 mm* Diameter of rivet holes ☒

of rivets in outer row in dome connection to shell *23 mm dia. 56 mm pitch.*

Type of Superheater ☒ Manufacturers of ☒ Tubes ☒ Steel castings ☒

Number of elements ☒ Material of tubes ☒ Internal diameter and thickness of tubes ☒

Material of headers ☒ Tensile strength ☒ Thickness ☒ Can the superheater be shut

the boiler be worked separately ☒ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ☒

Area of each safety valve ☒ Are the safety valves fitted with easing gear ☒ Working pressure ☒

Rules ☒ Pressure to which the safety valves are adjusted ☒ Hydraulic test pressure ☒

tubes ☒ castings ☒ and after assembly in place ☒ Are drain cocks or valves ☒

to free the superheater from water where necessary ☒

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with ☒

The foregoing is a correct description, ☒

AKTIESELSKABET
NAKSKOV SKIBSVÆRFT

Dates of Survey ☒ During progress of work in shops - - - ☒

while building ☒ During erection on board vessel - - - ☒

24/2 27/3 15/4 30/4 9/5 21/5 11/6

Are the approved plans of boiler and superheater forwarded herewith ☒ (If not state date of approval.)

Total No. of visits *7*

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

This donkey boiler has been examined internally and externally and found with safety valves, man and hand holes with doors, steam pipes, mountings &c in good, efficient and safe working condition. In accordance with the requirements contained in the Secretary's letter & dated 24/3/30 the scantlings have been compared with the approved plan and found in order; the plain tubes have been renewed, uptake repaired all mountings overhauled and the safety valves renewed complete.

After completion of repairs the donkey boiler was tested by hydraulic pressure to 12 kg/cm² and found good and tight, and the safety valves adjusted under steam to 100 lbs. per sq. in.

For feeding purposes a hand pump and two feed injectors are fitted.

Recommend the vessel to have notation of *DBS-6-30* -100 lb. in the Reg. Book

Survey Fee *£4. 100. 00* When applied for, *14. 6. 1930*

Travelling Expenses (if any) *£* When received, *21. 6. 1930*

Shuliff

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *TUE. 22 JUL 1930*

Assigned

See attached
Letter GE 8282



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Foundation