

REPORT ON BOILERS.

No. 17919

Received at London Office

2 MAR 1928

Writing Report 28th Feb 1928 When handed in at Local Office

10

Port of Hamburg

in Survey held at

Hamburg

Date, First Survey

14th Feb. 1928 Last Survey 22nd Feb. 1928

Book

(Number of Visits 4)

75 on the Sloop Motor Vessel "BRETAGNE"

Tons

Gross 3176.67
Net 1930.66

at Copenhagen

By whom built

Burmeister & Wain

Yard No. 755

When built 1927-28

es made at

Copenhagen

By whom made

Akt. Burmeister & Wain's
Maskin og Skibstggeri

Engine No. 1430

When made 1927-28

rs made at

Altona - Ohlmsen

By whom made

Ohlmsen Eisenwerk A.G.

Boiler No. 4380

When made 1928

rs Det dansk-franske Dampskibsselskab
(A.S. Petersen)

Port belonging to

Copenhagen

VERTICAL DONKEY BOILER.

at Altona

By whom made

Ohlmsen Eisenwerk

Boiler No. 4380

When made 1928

Where fixed

In the machinery
space.

Manufacturers of Steel

Messrs Mannesmann-Röhren-Werke, Akt. Schula Knandt of Hückingen

Heating Surface of Boiler

6.5 m²

Is forced draught fitted

Coal or Oil fired

Oil fired

and Description of Boilers

One vertical Donkey Boiler with four cross tubes

Working pressure

7 kg/cm² (100 lb)

d by hydraulic pressure to

200 lbs

Date of test

22nd February 1928

No. of Certificate

466

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

two, spring loaded

of each set of valves per boiler

per rule 5.95 mm²
as fitted 2.575 mm²

Pressure to which they are adjusted

100 lbs.

Are they fitted with easing gear

yes

whether steam from main boilers can enter the donkey boiler

No main boilers

Smallest distance between boiler or uptake and bunkers

work

No bunkers

Is oil fuel carried in the double bottom under boiler

yes

Smallest distance between base of boiler and tank top plating

42"

Is the base of the boiler insulated

yes

Largest internal dia. of boiler

1200 mm

Height

3000 mm

plates: Material

S. M. Steel

Tensile strength

44-50 kg/mm²

Thickness

9 mm

the shell plates welded or flanged

flanged

Description of riveting: circ. seams

end by single
inter by single

long. seams

by double

of rivet holes in

bottom 20 mm
circ. seams 17 mm
long. seams 17 mm

Pitch of rivets

bottom 50 mm
46 mm
62 mm

Percentage of strength of circ. seams

plate 63 %
rivets 45 %

of Longitudinal joint

plate 24.5 %
rivets 46.5 %
combined

ing pressure of shell by rules

8.8 kg/cm²

Thickness of butt straps

outer
inner

Crown: Whether complete hemisphere, dished partial spherical, or flat

partial spherical

Material

S. M. Steel

ile strength

41-47 kg

Thickness

12 mm

Radius

1200 mm

Working pressure by rules

8.8 kg/cm²

ription of Furnace: Plain, spherical, or dished crown

partial spherical

Material

S. M. Steel

Tensile strength

41-47 kg

ness

crown 14 mm

External diameter

top 900 mm
bottom 900 mm

Length as per rule

1350 mm

Working pressure by rules

8.5 kg/cm²

of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

eter of stays over thread

Radius of spherical or dished furnace crown

950 mm

Working pressure by rule

8.6 kg/cm²

ness of Ogee Ring

13 mm

Diameter as per rule

D 1040
d 950

Working pressure by rule

8.9 kg/cm²

Combustion Chamber: Material

Tensile strength

Thickness of top plate

as if dished

Working pressure by rule

Thickness of back plate

Diameter if circular

th as per rule

Pitch of stays

Are stays fitted with nuts or riveted over

eter of stays over thread

Working pressure of back plate by rules

Plates: Material

front
back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

prising shell, Dia. as per rule

front
back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay
plain

BACK

stay
plain

ch alternate tube in outer vertical rows a stay tube

Working pressure by rules

front
back

ers to combustion chamber tops: Material

Tensile strength

h and thickness of girder at centre

Length as per rule

nce apart

No. and pitch of stays in each

Working pressure by rule

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Foundation

Crown 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 ☒

Tubes: Material ☒ External diameter ☒ { plain stay. ☒ Thickness ☒

No. of threads per inch ☒ Pitch of tubes ☒ Working pressure by rules ☒

Manhole Compensation: Size of opening in shell plate 300×400 ☒ Section of compensating ring 400×501 ☒ No. of rivets and d of rivet holes 16 of 20 ☒ Outer row rivet pitch at ends 90 ☒ Depth of flange if manhole flanged ☒

Uptake: External diameter 298 ☒ Thickness of uptake plate 9 ☒

Cross Tubes: No. 4 ☒ External diameters 260 ☒ Thickness of plates 9 ☒

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with ☒ *yes*

The foregoing is a correct description,

Offensener Eisenwerk

Aktien-Gesellschaft

Manuf.

Dates of Survey ☒ During progress of work in shops - $14/2.28, 17/2.28, 20/2.28, 22/2.28$ Is the approved plan of boiler forwarded herewith ☒ *yes*
(If not state date of approval.)
while building ☒ During erection on board vessel - $16/4, 24/4, 27/4, 2/5, 11/5, 13/5, 1928$ Total No. of visits 4

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This Donkey Boiler has been built under Special Survey in accordance with the approved plan, the Secretary's letter E 16th Dec. 1927 and otherwise in conformity with the requirements of the Rules, and the materials and the workmanship are of good quality. The materials used in the construction are made at works recognized by the Committee and tested by the Port Surveyors in accordance with the Rules. When tested by hydraulic pressure to 200 lbs per square inch this Donkey Boiler was found to be tight and sound in every respect and showed no signs of weakness. It is eligible in our opinion for notation of * N.D.B. 2. 28. subject to examination under steam when fitted on board and Safety valves have been adjusted.*

Marks on Boiler:

No. 466	
Lloyd's Test	
200 lbs	
WP 100 lbs	
F.S. 21. 2. 28	

The boiler has now been fitted on board the vessel and connected, under our supervision to our satisfaction.

A duplex pump (Warthington system) 90 mm x 60 mm x 90 mm and an injector have been fitted for the feeding purpose.

Recommend the vessel to have notation in the Register Book of DB-100 lbs.

Survey Fee ... £ 4 : 4 : 7 When applied for, $27.2.28$
Travelling Expenses (if any) £ - : 10 : 1 When received, $12.3.28$

A. Carstensen
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute **JUES. 19 JUN 1928**

Assigned *see Minute on*
Cpu Rpt 77 27 attached



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