

REPORT ON BOILERS.

No. 7168.

14 JAN 1926

Received at London Office

2/1

1926 When handed in at Local Office

19

Port of

Copenhagen

held at

Copenhagen

Date, First Survey

16/6 1925

Last Survey

5/12

1925

(Number of Visits 10)

Gross 5390.97
Net 5342.41

Steamship "Danmark"

By whom built

As Bismarck & Hain's Maskin-
by Skibbyggeri.

Yard No. 337

When built 1925

By whom made

As Bismarck & Hain's Maskin-
by Skibbyggeri.

Engines No. 1088
1089

When made 1925

By whom made

Boiler No.

When made

Det Asiatiske Kompagni

Port belonging to

Copenhagen

DONKEY BOILER.

By whom made

As Jensen & Hraae

Boiler No. 222

When made 1925

Where fixed

Harboard side
of engine room.

Steel Plates: Rheinische Stahlwerke; Crosslinks: Mann, Gallenwegs & Manchester; Fimmet: Mann, Phoenix and Houlder Union.

Surface of Boiler

13.7 m² 147 #

Is forced draught fitted

No.

Coal or Oil fired

oil fired

Position of Boilers

One off, vertical, crosslink

Working pressure 80 lbs. per sq. in.

Test pressure to

160 lbs. per sq. in.

Date of test 21st August 1925.

No. of Certificate 452.

Valves in each Boiler

No. and Description of safety valves to each boiler 2 off, direct spring loaded

Area of valves per boiler

per rule 1515 mm²
as fitted 3926

Pressure to which they are adjusted 80 lbs. per sq. in. Are they fitted with easing gear yes.

Distance from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler

yes.

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

yes.

Largest internal dia. of boiler 1650 mm. Height 3795 mm.

Material

S. M. steel.

Tensile strength

46.5 kg/mm²

Thickness

9.5 mm.

Welded or flanged

No.

Description of riveting: circ. seams

end lap, single riv.
inter. " " " "

long. seams lap, 2 riv. rivet.

Number of rivets in

circ. seams 19 mm.
long. seams 19

Pitch of rivets 45 mm.
60

Percentage of strength of circ. seams plate 54.8
rivets 54.1

of Longitudinal joint plate 68.3
rivets 81.2
combined

Thickness of shell by rules

7.5 kg/cm² = 106.5 lbs. per sq. in.

Thickness of butt straps

outer
inner

Whether complete hemisphere, dished partial spherical, or flat dished, partial spher.

Material S. M. steel.

Thickness

43.8 kg/mm² 13 mm.

Radius

1650 mm.

Working pressure by rules

6.93 kg. 98.5 lbs.

Furnace:

Plain, spherical, or dished crown dished.

Material S. M. steel.

Tensile strength

43.4 kg/mm²

External diameter

top 1278 mm.
bottom 1258

Length as per rule 1885 mm.

Working pressure by rules 4.845 kg = 69.2 lbs.

Are stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Are stays over thread

yes

Radius of spherical or dished furnace crown

yes

Working pressure by rule

yes

Are stays over thread

yes

Diameter as per rule

D
d

Working pressure by rule

yes

Material

Tensile strength

Thickness of top plate

Working pressure by rule

Thickness of back plate

Diameter if circular

Pitch of stays

Are stays fitted with nuts or riveted over

Working pressure of back plate by rules

Material

front

back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Shell, Dia. as per rule

front

back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay

plain

BACK

stay

plain

Are stays in outer vertical rows a stay tube

Working pressure by rules

front

back

Combustion chamber tops: Material

Tensile strength

Thickness of girder at centre

Length as per rule

No. and pitch of stays in each

Working pressure by rule

Working pressure by rule

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Lloyd's Register

Foundation

W162-0052

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 edge ☒

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 305 x 405 mm Section of compensating ring 97.5 x 16 mm No. of rivet holes 32 off 19 mm Outer row rivet pitch at ends 95 mm Depth of flange if manhole flanged ☒

Uptake: External diameter 424 mm Thickness of uptake plate 12 mm

Cross Tubes: No. 6 External diameters 223.8 mm Thickness of plates 11.9 mm

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

The foregoing is a correct description

PETERSEN & WRAA
P. Hansen

Dates of Survey while building { During progress of work in shops - 11/6, 1/7, 17/7, 21/8 1925
During erection on board vessel - 12/11, 16/11, 19/11, 25/11, 3/12, 5/12 1925

Is the approved plan of boiler forwarded herewith (If not state date of approval.) ☒
Total No. of visits 10

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This donkey boiler has been built under special survey and in accordance with the Rules, the approved plan and the requirements contained in Secretary's letters & dated 5/3 - 19/3 - 25/3 1925. The material used in construction has been tested and examined as required by the Rules and the workmanship is good.
A donkey boiler fuel pump, 90 x 60 x 90 mm duplex (Horseshoe) fuel injector have been fitted to feed the boiler.

Survey Fee £4. 83. 54 When applied for, 6/9 19 25
Travelling Expenses (if any) £ — When received, 7/9 19 25

Committee's Minute **FRI. 22 JAN 1926**
Assigned