

UG 1942

# REPORT ON BOILERS.

No. 2031  
5 NOV 1941

22<sup>nd</sup> Oct. 41.

22<sup>nd</sup> Oct. 41.

Malmö.

Linné.

24<sup>th</sup> Sept.

15<sup>th</sup> Oct. 41.

"AKKA"

Göteborg

A.-O. Götsäter

Yard No. 568

Linné

Carl Holmberg M.V.A.O.

Boiler No. 4310

When made 1941

Port belonging to

## VERTICAL DENKEY BOILER

Linné

Carl Holmberg M.V.A.O.

Boiler No. 4310

When made 1941

Where fixed

✓

Linnéhammars Sänkes A.-O. Linnéhammars & Anst. Jernvårker A.-O. Anst.

Total Heating Area

12.08 m<sup>2</sup>

Is forced draught fitted

✓

Coal or oil fired

✓

No. and Description of Boilers

One vertical denkey boiler with comp. tube.

Working pressure

6 kg. cm<sup>2</sup>

85 lb.

Tested by hydrostatic pressure to

12 kg. cm<sup>2</sup>

Date of test

15.10.1941

No. of Certificate

104.

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

per rule  
as fitted

Pressure to which they are adjusted

Are they fitted with safety gear

State whether steam from main boilers can enter the denkey boiler

✓

Smallest distance between boiler or uptake and bunkers or woodwork

✓

Is oil fuel carried in the double bottom under boiler

✓

Smallest distance between base of boiler and tank top plating

✓

Is the base of the boiler insulated

✓

Largest internal dia. of boiler

1400 mm.

Height of shell

3779 mm.

Shell plates: Material

Steel

Tensile strength

40.2-43.8 kg. cm<sup>2</sup>

Thickness

10 mm.

Are the shell plates welded or bunged

No

Description of riveting: circ. seams

end  
late

long. seams

D.R.

Lap

Dia. of rivet holes in

circ. seams 20 mm.  
long. seams 20 mm.

Pitch of rivets

50 mm.  
66 mm.

Percentage of strength of circ. seams

plate 60%  
ends 56.1%

of Longitudinal joint

ends 69.6%  
combined 85%

Working pressure of shell by rules

8.28 kg. cm<sup>2</sup>

Thickness of butt straps

outer  
inner

Shell Crown

When complete hemispherical, dished partial, spherical, or flat

Dished partial spherical

Material

Steel

Tensile strength

45.2-45.9 kg. cm<sup>2</sup>

Thickness

15 mm.

Radius

1120 mm.

Working pressure by rules

12.25 kg. cm<sup>2</sup>

Description of the Crown

When complete hemispherical, dished partial, spherical, or flat

Plains

Material

Steel

Tensile strength

42.4 kg. cm<sup>2</sup>

Thickness

14.5 mm.

1129 mm.  
1254 mm.

Length as per rule

2100 mm.

Working pressure by rules

6.05 kg. cm<sup>2</sup>

Are the crown and shell

and crown

✓

Are stays fitted with nuts or riveted over

✓

Radius of spherical or dished crown

880 mm.

Working pressure by rule

8.6 kg. cm<sup>2</sup>

Diameter as per rule

8

Working pressure by rule

✓

Thickness of top plate

Tensile strength

Thickness of top plate

✓

Working pressure by rule

Working pressure by rule

Thickness of back plate

Diameter if circular

✓

Are stays fitted with nuts or riveted over

✓

Working pressure of back plate by rule

✓

Thickness

Tensile strength

Thickness

Mean pitch of stay tubes in nests

✓

Dia. of tube holes

Dia. of tube holes

Dia. of tube holes

max

min

✓

Working pressure by rule

Working pressure by rule

Tensile strength

Length as per rule

✓

Working pressure by rule

Working pressure by rule

Tensile strength

Length as per rule

✓



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Crown stays: Material	✓	Tensile strength	✓	Diameter	at body of stay, ✓ 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, ✓ over threads ✓
Area supported by each stay	✓	Working pressure by rules	✓	Are the stays drilled at the outer ends	✓
Tube: Material	✓	External diameter	plate ✓ ring ✓	Thickness	✓
No. of threads per inch	✓	Pitch of tubes	✓	Working pressure by rules	✓
Manhole Compensation: Size of opening in shell plate	205 x 405 mm	Section of compensating ring	2880 mm	No. of rivets and diameter	
of rivet holes	40-20 mm	Outer row rivet pitch at ends	92 mm	Depth of flange if manhole flanged	✓
Uptake: External diameter	329 mm	Thickness of uptake plate	12 mm		
Cross: Tubes	4	External diameters	255 mm	Thickness of plates	10 mm

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

The foregoing is a correct description.  
CARL HOLMBERGS MEK. VERKSTADS A-B.

E. Wernander

Manufacturer

Date of Survey: 24.9.41, 19.10.41  
During progress of work in shops - -  
while building: During erection on board vessel - -

Is the approved plan of boiler forwarded herewith 24.4.1941.  
(If not state date of approval.)  
Total No. of visits 3.

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

This docking boiler has been built under special survey in accordance with the Rules and the approved plans.  
The material used in the construction has been tested as per Rules and the workmanship is good.  
This boiler has been dispatched to Gøteborg for installation in Messrs. G. B. Holmström's Yard No. 508.

(A copy of this report has been sent to the Gøteborg office).

Survey Fee: 1 Kr. 79.80 When applied for: 22nd Oct. 41.  
Travelling Expenses: 1 Kr. 2.40 When received: 19

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