

REPORT ON BOILERS.

No. 11761.

Received at London Office 25 AUG 1945

Date of writing Report 4th August 45 When handed in at Local Office

10

Port of Copenhagen

No. in
Reg. Book

Survey held at

Copenhagen & Odense

Date, First Survey

20th October 1941

Last Survey

22nd July 1945

(Number of Visits

26

Gross 5170.22

Net 3056.01

on the

Steel Single Screw Motor Vessel SALLY MÆRSK

Built at

Odense

By whom built

Odense Skibsbyggeri A/S

Yard No.

92

When built

Engines made at

Copenhagen

By whom made

Haskin & Skibsbyggeri

Engine No.

3389

When made

1942.

Boilers made at

Copenhagen

By whom made

A/S P. Smith, Mygind & Hultemær

Boiler No.

804

When made

1943

Owners

A/S Dampskibsselskabet "Frederiksborg"

Port belonging to

Copenhagen

VERTICAL DONKEY BOILER.

Made at

Copenhagen

By whom made

A/S P. Smith, Mygind & Hultemær

Boiler No.

802

When made

1943

Where fixed

In engine room

Manufacturers of Steel

PLATES: Vilkona Marine Steel - Ironworks Copenhagen TUBES: Deutsche Rohrenwerke Lübeck

Total Heating Surface of Boiler

634²

Is forced draught fitted

yes

Coal or Oil fired

oil fired

No. and Description of Boilers

1 off vertical boiler

Working pressure

7 kg/cm²

Tested by hydraulic pressure to

14 kg/cm²

Date of test

29th April 1943

No. of Certificate

683

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 off directly spring loaded

Area of each set of valves per boiler

per rule 3210^{1/2}
as fitted 4940^{1/2}

Pressure to which they are adjusted

7 kg/cm²

Are they fitted with easing gear

yes

State whether steam from main boilers can enter the donkey boiler

No main boiler fitted

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

1500^{1/4}

Shell plates: Material

Siemens Martin Steel

Tensile strength

44-50 kg/cm²

Thickness

Upper 17^{1/4}
Tube plate 17^{1/4}
Lower 14^{1/4}

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end single rivet
inter single rivet

long. seams

double riveting

Dia. of rivet holes in

circ. seams 20.5^{1/4}
long. seams 20.5^{1/4}

Pitch of rivets

51^{1/4}

Percentage of strength of circ. seams

plate 59.8%
rivets 48.3%

Longitudinal joint

plate 67%
rivets 79.4%
combined

Working pressure of shell by rules

TOP: 7.18 kg/cm² BOTTOM 8.3 kg/cm²

Thickness of butt straps

outer 14^{1/4}
inner 14^{1/4}

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

dished

Material Siemens M. Steel

Tensile strength

41-47 kg/cm²

Thickness

17^{1/4}

Radius

1900^{1/4}

Working pressure by rules

7.5 kg/cm²

Description of Furnace: Plain, spherical, or dished crown

spherical crown

Material

Siemens M. Steel

Tensile strength

41-47 kg/cm²

Thickness

13^{1/4}

External diameter

top 1256^{1/4}
bottom 1824^{1/4}

Length as per rule

690^{1/4}

Working pressure by rules

7.3 kg/cm²

Pitch of support stays circumferentially

✓

and vertically

✓

Are stays fitted with nuts or riveted over

✓

Diameter of stays over thread

✓

Radius of spherical or dished furnace crown

663^{1/4}

Working pressure by rule

11.4 kg/cm²

Thickness of Upper Ring

51^{1/4}

Diameter as per rule

D 1900^{1/4}
a 1798^{1/4}

Working pressure by rule

approx 7 kg/cm²

Combustion Chamber: Material

✓

Tensile strength

✓

Thickness of top plate

✓

Radius if dished

✓

Working pressure by rule

✓

Thickness of back plate

✓

Diameter if circular

✓

Length as per rule

✓

Pitch of stays

✓

Are stays fitted with nuts or riveted over

✓

Diameter of stays over thread

✓

Working pressure of back plate by rules

✓

Tube Plates: Material

front S. M. Steel
back S. M. Steel

Tensile strength

41-47 kg/cm²

Thickness

17^{1/4}

Mean pitch of stay tubes in nests

260^{1/4}

If comprising shell, Dia. as per rule

front 1800^{1/4}
back 1800^{1/4}

Pitch in outer vertical rows

200^{1/4}

Dia. of tube holes FRONT

stay 82^{1/4}
plain 79^{1/4}

BACK

stay 76^{1/4}
plain 76^{1/4}

Is each alternate tube in outer vertical rows a stay tube

all stay tubes

Working pressure by rules

front 10.2 kg/cm²
back 10.2 kg/cm²

Girders to combustion chamber tops: Material

✓

Tensile strength

✓

Depth and thickness of girder at centre

✓

Length as per rule

✓

Distance apart

✓

No. and pitch of stays in each

✓

Working pressure by rule

✓

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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 *Siemens Martin Steel* ☒ External diameter ☒ plain *76 1/2* ☒ Thickness ☒ *3.25 1/4* ☒
No. of threads per inch *11* ☒ Pitch of tubes *200 1/2 x 107 1/2* ☒ Working pressure by rules *10 kg/cm²* ☒

Manhole Compensation: Size of opening in shell plate *320 1/2 x 420 1/2* ☒ Section of compensating ring *flat* ☒ No. of rivets and diameter
of rivet holes *36 # 20.5 1/2* ☒ Outer row rivet pitch at ends *67 1/2* ☒ Depth of flange if manhole flanged ☒

Uptake: External diameter ☒ Thickness of uptake plate ☒

Cross Tubes: No. ☒ External diameters ☒ Thickness of plates ☒

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

The foregoing is a true and correct description,

SMITH, MYGIND & HÖTTEMEIER

W. Am E. Andersen Manufacturer.

Dates of Survey ☒ During progress of work in shops - *1941 20/10 - 22/10 - 5/11 1942 6/1 - 13/5 - 20/8 - 1/9 - 13/10*
☒ while building ☒ During erection on board vessel - *1943 25/3 - 29/4 1943 28/5 - 29/6 - 4/8 - 26/8 - 22/9 - 20/10 - 1/11 - 30/11 1944 8/1 - 2/2 - 10/3 - 1945 7/7 - 19/7 - 20/7 - 21/7 - 22/7*
Is the approved plan of boiler forwarded herewith *yes* ☒
(If not state date of approval.)
Total No. of visits *26*

Is this Boiler a duplicate of a previous case *yes* ☒ If so, state Vessel's name and Report No. *Leise Mark of Copenhagen Rpt. 11766*
Osense Yard No 90

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built under special survey in accordance with the requirements of the Rules and the approved plan. The material has been tested as required by the Rules and the workmanship is good. The boiler has been installed on board under special survey and to our satisfaction.*

Recommend the vessel to have notation 20B 100lb

Survey Fee ... *£ 200.00* : When applied for, *25/10.43* 19 *43*
Travelling Expenses (if any) £ : : When received, *27/10* 19 *43*

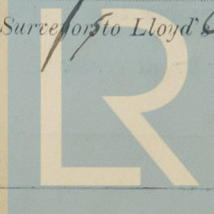
L. Clausen
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 11 JAN 1946

Assigned

all minute on L.R. Rpt.



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