

## REPORT ON BOILERS.

No. 14549

Date of writing Report

10

When handed in at Local Office

1879

10

Port of

Received at London Office

20 SEP 1926

No. in Survey held at  
Reg. Book.

Grâce - Berleur (Belgium)

Date, First Survey 2-6-26

Last Survey 19-8-1926

on the Steel twin Screw Steamer "FRASCA"

(Number of Visits Four)

Gross 2601.58  
Tons Net 1130.84

Master

Built at Schiedam

By whom built

Wierf Gusto A.F. Smulders

When built 1926

Engines made at

Schiedam

By whom made

do

when made 1926

Boilers made at

Grâce - Berleur

By whom made

Phaendronneris A.F. Smulders

when made 1926

Registered Horse Power

236

Owners

Curcansche Scheepv. My.

Port belonging to

Willenstad

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Beardmore - C. H. G. &amp; Co.

(Letter for record

Total Heating Surface of Boilers

2084 sq. ft.

Is forced draft fitted

Yes

No. and Description of

Boilers two single ended multitubular

Working Pressure

180 lb

Tested by hydraulic pressure to

320 lb

Date of test 19-8-26

No. of Certificate

131

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

43.75 sq. ft.

No. and Description of

safety valves to each boiler 2 high lifting spring loaded

Area of each valve

70 sq. in. diam.

Pressure to which they are adjusted

100 lb

Are they fitted with easing gear

Yes

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

none

Smallest distance between boilers or uptakes and bunkers or woodwork

Over 3'-0"

Mean dia. of boilers

13' 1 3/32"

Length

12' 3"

Material of shell plates

1/2 in. steel

Thickness

1 3/32"

Range of tensile strength

28/32 ton

Are the shell plates welded or flanged

flanged

Descrip. of riveting: cir. seams

Double

long. seams

treble D. Butt

stuffed

Diameter of rivet holes in long. seams

1 3/16"

Pitch of rivets

8 1/8"

Gap of plates or width of butt straps

18"

Per centages of strength of longitudinal joint

rivets 86.1

plate 86.5

Working pressure of shell by

rules

185 lb

Size of manhole in shell

1' 4 3/4"

Size of compensating ring

1 1/8" x 5 7/8"

No. and Description of Furnaces in each

boiler two Morrison

Material

1/2 in. steel

Outside diameter

3' 11 1/8"

Length of plain part

top

bottom

Thickness of plates

crown 21/32"

bottom do

Description of longitudinal joint

by welded

No. of strengthening rings

none

Working pressure of furnace by the rules

200 lb

Combustion chamber

plates: Material

1/2 in. steel

Thickness: Sides

7/8"

Back

3/4"

Top

7/8"

Bottom

7/8"

Pitch of stays to ditto: Sides

10 x 9 3/4"

Back 8 x 7 3/4"

Top 10' x 8 1/2"

If stays are fitted with nuts or riveted heads

Riv. Head

Working pressure by rules

212 lb

Material of stays

1/2 in. steel

Diameter at

largest part

1 3/4"

Area supported by each stay

622 sq. in.

Working pressure by rules

290 lb

End plates in steam space: Material

1/2 in. steel

Thickness

1 1/8"

Pitch of stays

1' 6" x 1 1/2"

How are stays secured

nut &amp; washer

Working pressure by rules

220 lb

Material of stays

steel

Diameter at smallest part

2 1/2"

Area supported by each stay

270 sq. in.

Working pressure by rules

226 lb

Material of Front plates at bottom

steel

Thickness

13/16"

Material of

lower back plate

steel

Thickness

3/4"

Greatest pitch of stays

11' x 13"

Working pressure of plate by rules

190 lb

Diameter of tubes

2 1/2"

Pitch of tubes

4"

Material of tube plates

steel

Thickness: Front

13/16"

Back

3/4"

Mean pitch of stays

8' x 12"

Pitch across wide

water spaces

14' 3/4"

Working pressures by rules

195 lb

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

8 1/2' x 1 1/2"

Length as per rule

34' 3/4"

Distance apart

8 1/2"

Number and pitch of Stays in each

2 x 10" P

Working pressure by rules

198 lb

Superheater or Steam chest; how connected to boiler

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

Manufacturer.

Dates During progress of  
Survey work in shops - -  
while During erection on  
building board vessel - -

2/6/28 - 7/8/28 - 27/8/28 - 19/8/28

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

These boilers have been constructed in accordance with the survey and the materials tested to the rules of this society. The workmanship is good and the Boilers have been tested by hydraulic pressure to 320 lb per square inch and found tight. The Boilers are eligible in my opinion to be classed, and to have record of survey when the mounting has been fitted and the safety valves adjusted under steam to 180 lb pressure.

Survey Fee

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When applied for,

23-8-

1926

The Boilers have been stamped for identification: N° 131. LLOYD'S TEST.

W.P. = 180 lb. T.P. = 320 lb.

F.A.R. 19-8-26

Travelling Expenses (if any)

£ 589-

When received,

31-8-

1926

Signature: J. L. Robey

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

UE8. 16 NOV 1926

Signed

See Ref. I. Expt. No. 15799



Lloyd's Register Foundation

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