

## REPORT ON BOILERS.

No. 205

Received at London Office 8 OCT 1925

Date of writing Report 5<sup>th</sup> of October 1925 When handed in at Local Office 192 Port of Boulogne

No. in Reg. Book.

Survey held at Boulogne

Date, First Survey 5<sup>th</sup> of November 1924 Last Survey 30<sup>th</sup> of June 1925

28279 on the Steam Drifter

"LA CIGOGNE"

(Number of Visits 21)

Gross 139

Net 84

Master

Built at

Arnhem

By whom built

H. T. Arnhemsehe  
Stoomschepbouw M.S.

Yard No.

When built 1924

Engines made at

Arnhem

By whom made

d<sup>o</sup>

Engine No.

When made 1924

Boilers made at

d<sup>o</sup>

By whom made

d<sup>o</sup>

Boiler No.

When made 1924

Nominal Horse Power 45 NHP

Owners

M<sup>re</sup> Friess 11<sup>bis</sup> Rue de Boston

Port belonging to Boulogne

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

steel ✓

(Letter for Record

(7)

Total Heating Surface of Boilers

892 sq. ft. ✓

Is forced draught fitted

no

Coal or Oil fired

coal ✓

No. and Description of Boilers

one multitubular ✓

Working Pressure

180 lbs. ✓

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

one ✓

Area of Firegrate in each Boiler

25.8 sq. ft. ✓

No. and Description of safety valves to each boiler

2 spring loaded ✓

Area of each set of valves per boiler

per Rule

as fitted 38 sq. in. ✓

Pressure to which they are adjusted

12.6 lbs. ✓

Are they fitted with easing gear

yes ✓

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

none fitted ✓

Smallest distance between boilers or uptakes and bunkers or woodwork

22 in. ✓

Is oil fuel carried in the double bottom under boilers

none ✓

Smallest distance between shell of boiler and tank

23 in. ✓

Is the bottom of the boiler insulated

no ✓

Largest internal dia. of boilers

3 m, 100 ✓

Length

2 m, 756 ✓

Shell plates: Material

steel ✓

Tensile strength

Thickness

24 mm ✓

Are the shell plates welded or flanged

all butt straps ✓

Description of riveting: circ. seams

end double riveted ✓

long. seams

double riveted ✓

Diameter of rivet holes in

circ. seams 25 mm ✓

long. seams 25 mm ✓

Pitch of rivets

80 mm ✓

Percentage of strength of circ. end seams

plate rivets

67.6 %

Percentage of strength of circ. intermediate seam

plate rivets

Percentage of strength of longitudinal joint

plate rivets combined

Working pressure of shell by Rules

180 lbs. (approved) ✓

Thickness of butt straps

outer 20 mm ✓

inner 20 mm ✓

No. and Description of Furnaces in each Boiler

two corrugated "Morison" ✓

Material

steel ✓

Tensile strength

Smallest outside diameter

900 mm ✓

Length of plain part

top 400 mm ✓

bottom 400 mm ✓

Thickness of plates

crown 45 mm ✓

bottom 45 mm ✓

Description of longitudinal joint

none welded ✓

Dimensions of stiffening rings on furnace or c.c. bottom

none ✓

Working pressure of furnace by Rules

180 lbs. (approved) ✓

End plates in steam space: Material

steel ✓

Tensile strength

Thickness

22 mm ✓

Pitch of stays

500 x 50, 400 x 50, 300 x 50 ✓

How are stays secured

secured in plates &amp; fitted with nuts outside ✓

Working pressure by Rules

180 lbs. (approved) ✓

Tube plates: Material

front steel ✓

back steel ✓

Tensile strength

Thickness

22 mm ✓

Mean pitch of stay tubes in nests

102 mm ✓

Pitch across wide water spaces

392 mm ✓

Working pressure

front 180 lbs. (approved) ✓

back 180 lbs. (approved) ✓

Girders to combustion chamber tops: Material

steel ✓

Tensile strength

Depth and thickness of girder

at centre

170 mm x 15 mm ✓

Length as per Rule

550 mm ✓

Distance apart

190 mm ✓

No. and pitch of stays

in each

2 x 180 ✓

Working pressure by Rules

180 lbs. (approved) ✓

Combustion chamber plates: Material

steel ✓

Tensile strength

Thickness: Sides

16 mm ✓

Back

16 mm ✓

Top

16 mm ✓

Bottom

16 mm ✓

Pitch of stays to ditto: Sides

180 x 180 mm ✓

Back

180 x 180 mm ✓

Top

180 x 190 mm ✓

Are stays fitted with nuts or riveted over

nuts inside riveted outside ✓

Working pressure by Rules

180 lbs. (approved) ✓

Front plate at bottom: Material

steel ✓

Tensile strength

Thickness

22 mm ✓

Lower back plate: Material

steel ✓

Tensile strength

Thickness

16 mm ✓

Pitch of stays at wide water space

180 x 180 mm ✓

Are stays fitted with nuts or riveted over

fitted with nuts inside riveted outside ✓

Working Pressure

180 lbs. (approved) ✓

Main stays: Material

steel ✓

Tensile strength

Diameter

At body of stay, 46 mm ✓

or Over threads

No. of threads per inch

6.3 (pitch 4 mm) ✓

Area supported by each stay

max. 1850 sq. in. ✓

Working pressure by Rules

180 lbs. (approved) ✓

Screw stays: Material

iron ✓

Tensile strength

Diameter

At turned off part, 41.5 mm ✓

or Over threads

No. of threads per inch

10 ✓

Area supported by each stay

324 sq. in. ✓



Working pressure by Rules 180 lbs (approved) Are the stays drilled at the outer ends ☒ Margin stays: Diameter { At turned off part, ☒ or Over threads ☒ 4 1/2 in

No. of threads per inch 10 (2.1) Area supported by each stay 2 88 sq in Working pressure by Rules 180 lbs (approved)

Tubes: Material steel External diameter { Plain 4 6 in Stay 4 6 in Thickness { 3.25 in 6.4 in No. of threads per inch 9 (2.1)

Pitch of tubes 10 2 x 10 2 in Working pressure by Rules 180 lbs (approved) Manhole compensation: Size of opening in shell plate 100 x 400 in Section of compensating ring 9 2 x 6 8 in No. of rivets and diameter of rivet holes 23 in

Outer row rivet pitch at ends 9 2 in Depth of flange if manhole flanged 70 in Steam Dome: Material steel

Tensile strength ☒ Thickness of shell 1 4 in Description of longitudinal joint welded

Diameter of rivet holes ☒ Pitch of rivets ☒ Percentage of strength of joint { Plate Rivets ☒

Internal diameter 6 50 in Working pressure by Rules 180 lbs (approved) Thickness of crown 1 4 in No. and diameter of stays ☒ Inner radius of crown 60 in Working pressure by Rules 180 lbs (approved)

How connected to shell Riveted Size of doubling plate under dome 9 50 x 2 3 in Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell 2 3 x 90 in Letter from Paris 22/11/24 (cuerrom du dom)

Type of Superheater Manufacturers of { Tubes Steel castings

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler

Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules

Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

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

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Workmanship good

The boiler has been specially examined internally and externally, the rivetings verified and found in accordance with the approved plan. The boiler is in good condition and eligible in my opinion for the favourable consideration of the Committee and upon classification to have the word of BS. 6.25.

Survey Fee ... £ - : 0 : 0 When applied for, 192

Travelling Expenses (if any) £ : : When received, 192

Alouche

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 23 OCT 1925

Assigned



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