

## REPORT ON BOILERS.

No. 5535

Received at London Office

23 MAR 1926

Date of writing Report 22 March 1926 When handed in at Local Office

192

Port of Haere

No. in Survey held at Reg. Book.

Haere

Date, First Survey 14 May

Last Survey 28 February 1926

(Number of Visits 7)

Gross  
Tons  
Net

on the

Primaire

Master

Built at Caen

By whom built <sup>Naval</sup> Armement Français

Yard No. 39

When built 1925

Engines made at

Indret

By whom made

Indret

Engine No. 11

When made 1920

Boilers made at

Haere

By whom made

Baillard &amp; Co

Boiler No. 1686

When made 1920

Nominal Horse Power

193

Owners

Compagnie Annexe d'Armement Maritime  
31 Avenue de l'Opera Paris

Port belonging to

Rouen

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

Manufacturers of Steel

(Letter for Record L (S) ✓)

Total Heating Surface of Boilers

301 m<sup>2</sup> 803247 ft<sup>2</sup> ✓

Is forced draught fitted

no ✓

Coal or Oil fired coal ✓

No. and Description of Boilers

2 multitubular

258 ✓

Working Pressure

13 185 lb ✓

Tested by hydraulic pressure to

Date of test

No. of Certificate

L

Can each boiler be worked separately yes ✓

Area of Firegrate in each Boiler

4 m<sup>2</sup> 40

No. and Description of safety valves to each boiler

2 spring ✓

Area of each set of valves per boiler

per Rule 6579 m<sup>2</sup>  
as fitted 6630 ✓

Pressure to which they are adjusted

13 ✓

Are they fitted with easing gear yes ✓

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

not fitted ✓

Smallest distance between boilers or uptakes and bunkers or woodwork

2000 mm ✓

Is oil fuel carried in the double bottom under boilers

no ✓

Smallest distance between shell of boiler and tank top plating

500 mm ✓

Is the bottom of the boiler insulated

no ✓

Largest internal dia. of boilers

4000 mm ✓

Length

3200 mm ✓

Shell plates: Material

steel ✓

Tensile strength 40 to 48 kg ✓

Thickness

31 mm

Are the shell plates welded or flanged

L

Description of riveting: circ. seams

and

Double ✓

long. seams

Buttle ✓

Diameter of rivet holes in

circ. seams 33 ✓

long. seams 33 ✓

Pitch of rivets

55 and 107 ✓

55 and 216 ✓

Percentage of strength of circ. end seams

plate 69.1  
rivets 66.2

Percentage of strength of circ. intermediate seam

plate L  
rivets L

Percentage of strength of longitudinal joint

plate 84.64  
rivets 144  
combined

Working pressure of shell by Rules

13.6

Thickness of butt straps

outer 31 ✓  
inner 29 ✓

No. and Description of Furnaces in each Boiler

2 barraged ✓

Material

steel

Tensile strength

38 to 46

Smallest outside diameter

1182 mm ✓

Length of plain part

top 205  
bottom 205

Thickness of plates

crown 16 ✓  
bottom 16 ✓

Description of longitudinal joint

L

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

L

Working pressure of furnace by Rules

74 kg ✓

End plates in steam space: Material

steel ✓

Tensile strength

40 to 48 ✓

Thickness

27.5 ✓

Pitch of stays 470 x 380 ✓

How are stays secured Double nuts and rings inside and outside ✓

Working pressure by Rules

13.5

Tube plates: Material

front steel ✓  
back steel ✓

Tensile strength

38 to 46 ✓

Thickness

25 ✓  
20 ✓

Mean pitch of stay tubes in nests

240 ✓

Pitch across wide water spaces

360 ✓

Working pressure

front 26  
back 17

Girders to combustion chamber tops: Material

steel ✓

Tensile strength

44 ✓

Depth and thickness of girder

at centre 225 x 2 x 20 mm ✓

Length as per Rule 724 mm 5 ✓

Distance apart

190 ✓

No. and pitch of stays

in each

3

190 ✓

Working pressure by Rules

22 ✓

Combustion chamber plates: Material

steel ✓

Tensile strength

38 to 46 ✓

Thickness: Sides

20 15.5 mm ✓

Back

16.5 ✓

Top

15.5 ✓

Bottom

20 ✓

Pitch of stays to ditto: Sides

190 x 190 ✓

Back

191.5 x 184 ✓

Top

190 x 190 ✓

Are stays fitted with nuts or riveted over

nuts inside riveted outside

Working pressure by Rules

side 26 back 18

Front plate at bottom: Material

steel

Tensile strength

40 to 48

Thickness

25

Lower back plate: Material

steel

Tensile strength

40 to 48

Thickness

25

Pitch of stays at wide water space 3 stays

x 370

600

x 370

Are stays fitted with nuts or riveted over with outside and inside and rings

Working Pressure

29

Main stays: Material

steel ✓

Tensile strength

40 to 48

Diameter

At body of stay,  
or  
Over threads

74 ✓

No. of threads per inch

3 7/8

Area supported by each stay 178600 mm<sup>2</sup>

Working pressure by Rules

13.9 ✓

Screw stays: Material

steel ✓

Tensile strength

40 to 48 ✓

Diameter

At turned off part,  
or  
Over threads

46 ✓

No. of threads per inch

3

Area supported by each stay 33320



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Working pressure by Rules 26.7 Are the stays drilled at the outer ends no Margin stays: Diameter 40 mm  
No. of threads per inch 3 Area supported by each stay 26 100 mm<sup>2</sup> Working pressure by Rules 18.6  
Tubes: Material Iron External diameter 89 Thickness 4 No. of threads per inch 2 7/8  
Pitch of tubes 120 x 120 Working pressure by Rules 15 Manhole compensation: Size of opening in  
shell plate 250 x 450 Section of compensating ring 754 x 854 No. of rivets and diameter of rivet holes 2 rings of 18 rivets d=23  
Outer row rivet pitch at ends 120 Depth of flange if manhole flanged L Steam Dome: Material L  
Tensile strength L Thickness of shell L Description of longitudinal joint L  
Diameter of rivet holes L Pitch of rivets L Percentage of strength of joint L  
Internal diameter L Working pressure by Rules L Thickness of crown L No. and diameter of  
stays L Inner radius of crown L Working pressure by Rules L  
How connected to shell L Size of doubling plate under dome L Diameter of rivet holes and pitch  
of rivets in outer row in dome connection to shell L  
Type of Superheater L Manufacturers of L  
Number of elements L Material of tubes L Internal diameter and thickness of tubes L  
Material of headers L Tensile strength L Thickness L Can the superheater be shut off and  
the boiler be worked separately L Is a safety valve fitted to every part of the superheater which can be shut off from the boiler L  
Area of each safety valve L Are the safety valves fitted with easing gear L Working pressure as per  
Rules L Pressure to which the safety valves are adjusted L Hydraulic test pressure:  
tubes L, castings L and after assembly in place L Are drain cocks or valves fitted  
to free the superheater from water where necessary L

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

The foregoing is a correct description,

H. L. L.

Manufacturer.

Dates of Survey During progress of work in shops - - Are the approved plans of boiler and superheater forwarded herewith no  
while building During erection on board vessel - - (If not state date of approval.)  
14 and 12 May - 3, 26 August - 10 Dec 28 Feb. Total No. of visits 7

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

This boiler has been examined internally and externally, found in good order and in accordance with the approved plan. They have not been surveyed during construction. The erection on board has been surveyed, the workmanship is good. This boiler merits in my opinion the favourable consideration of the Committee for to be classed to Lloyd's Register of Shipping

Survey Fee on machinery report : : When applied for, L 192  
Travelling Expenses (if any) £ : : When received, L 192

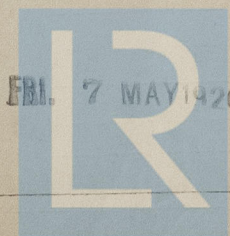
H. L. L.  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 26 MAR 1926

Assigned

See A.E. 1st attached



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Foundation