

REPORT ON BOILERS.

No. 5711

Received at London Office

0 JAN 1927

Date of writing Report January 1927 When handed in at Local Office

192

Port of

Glarre

No. in
g. Book.

Caen

Date, First Survey 29 April

Last Survey 3 Dec

1926

on the

H/2

Wilno

ex Pluviose

(Number of Visits

) Gross

Tons

Net

Master

Built at

Caen

By whom built

Ch^{re} Navals Francois

Yard No.

41

When built

1926

Engines made at

Indret

By whom made

Indret

Engine No.

13

When made

1920

Boilers made at

Indret

By whom made

Indret

Boiler No.

35836

When made

1920

Nominal Horse Power

193

Owners

Polish Government

Port belonging to

Gdynia

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record

L (S)

Total Heating Surface of Boilers

301^m.80

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

23^k

Date of test 3 June

No. of Certificate

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

4^m.40

No. and Description of safety valves to each boiler

2 sprung

Area of each set of valves per boiler

per Rule

6579

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^m

Is oil fuel carried in the double bottom under boilers

no

Smallest distance between shell of boiler and tank top plating

500^m

Is the bottom of the boiler insulated

no

Largest internal dia. of boilers

4650

Length

3200

Shell plates: Material

Steel

Tensile strength

62 & 50^{kg}

Thickness

31

Are the shell plates welded or flanged

L

Description of riveting: circ. seams

end

Dangle

g. seams

Rille

Diameter of rivet holes in

circ. seams

33

long. seams

33

Pitch of rivets

10⁷.3

inter.

L

Percentage of strength of circ. end seams

plate

68.1

rivets

70.09

Percentage of strength of circ. intermediate seam

plate

L

Percentage of strength of longitudinal joint

plate

84.7

rivets

130

combined

90.9

Working pressure of shell by Rules

13^k.9

Thickness of butt straps

outer

31

inner

29.5

No. and Description of Furnaces in each Boiler

2 corrugated

Material

Steel

Tensile strength

38 to 46

Smallest outside diameter

1182

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

13^k.8

Stays 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 outside and inside

Working pressure by Rules

14.2

Stays in water space: Material

front

Steel

back

Steel

Tensile strength

38 to 46

Thickness

25

Pitch of stay tubes in nests

240

Pitch across wide water spaces

350

Working pressure

front

26

back

17.5

Stays to combustion chamber tops: Material

Steel

Tensile strength

42 to 50

Depth and thickness of girder

Centre

225 - 20

x

7

Length as per Rule

724.5

Distance apart

180

No. and pitch of stays

Each

3 - 190

Working pressure by Rules

22^k

Combustion chamber plates: Material

steel

Tensile strength

38 to 46

Thickness: Sides

15.5

Back

16.5

Top

15.5

Bottom

20

Pitch of stays to ditto: Sides

190 x 190

Back

191.5 x 191.5

Top

190 x 190

Are stays fitted with nuts or riveted over

riveted outside

Working pressure by Rules

18^k

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

240

Are stays fitted with nuts or riveted over

nut inside and outside and rings

Working Pressure

29

Main stays: Material

steel

Tensile strength

40 to 48

meter

At body of stay,

or

7/4

Over threads

No. of threads per inch

3.5

Area supported by each stay

178600

Working pressure by Rules

13.9

Screw stays: Material

steel

Tensile strength

40 to 48

meter

At turned off part,

or

46

Over threads

No. of threads per inch

3

Area supported by each stay

33396

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Working pressure by Rules 26.7 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 40 or Over threads
No. of threads per inch 3 Area supported by each stay 36100 Working pressure by Rules 18.6
Tubes: Material Iron External diameter { Plain 89 Thickness { 4 No. of threads per inch 2.5
Stay 89 8.5
Pitch of tubes 120x120 Working pressure by Rules 15 Manhole compensation: Size of opening
shell plate 350x450 Section of compensating ring 754x854 No. of rivets and diameter of rivet holes range of 18 rivets
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 { Plate L Rivets
Internal diameter L Working pressure by Rules L Thickness of crown L No. and diameter
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
of rivets in outer row in dome connection to shell L

Type of Superheater L Manufacturers of { Tubes L Steel castings
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
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
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,

Alfred 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.) 17 march 1924
21 April 26 August 9 Nov 1 March Total No. of visits 10
2 3 18 June 21 June 3 Dec

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

This boilers have not been surveyed during construction. They have been examined internally and externally and found in good order and in accordance with the approved plan. The erection on board has been surveyed the workmanship is good. In my opinion this boilers merit the favourable consideration of the Committee for to be classed.

Survey Fee On machinery repaired : When applied for, 192
Travelling Expenses (if any) £ : : When received, 192

Shamek

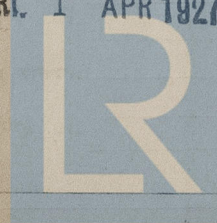
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI, 14 JAN 1927

Assigned

See Caen J.R. rpt No 136

FRI, 1 APR 1927



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