

REPORT ON BOILERS.

No. 7333

-9 NOV 1926

Received at London Office

Date of writing Report

Nov 3

1926

When handed in at Local Office

Nov 5

1926

Port of

Trieste

No. in Reg. Book.

9808

Survey held at

Monfalcone

Date, First Survey

Aug 27,

Last Survey

Oct 23

1926

(Number of Visits 15)

Tons

Gross 2604

Net 1136

Master

Built at

Monfalcone

By whom built

Cantieri Nav. Triest.

Yard No.

180

When built

1926

Engines made at

Rotterdam

By whom made

Rotterdamse S.S. Co

Engine No.

148-49

When made

1926

Boilers made at

Rotterdam

By whom made

Rotterdamse S.S. Co.

Boiler No.

421-22

When made

1926

Nominal Horse Power

236

Owners

Curacaense Scheepvaart Maats.

Port belonging to

Willemstad

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

See also Rotterdam Report 13.7.26

Manufacturers of Steel

Messrs. William Beardmore & Co. Ltd

(Letter for Record S)

Total Heating Surface of Boilers

4168 sq ft

Is forced draught fitted

yes

Coal or Oil fired

Oil

No. and Description of Boilers

Two single ended multitubular marine boilers

Working Pressure

180 lbs

Tested by hydraulic pressure to

320 lbs

Date of test

5.7.26

No. of Certificate

841

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two high lifting spring loaded

Area of each set of valves per boiler

per Rule 11.86 sq ft

Pressure to which they are adjusted

185 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

Smallest distance between boilers or uptakes and bunkers or woodwork

-

Is oil fuel carried in the double bottom under boilers

no

Smallest distance between shell of boiler and tank top plating

-

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

13' 0"

Length

12' 3"

Shell plates: Material

S.M.S.

Tensile strength

28-32 T.

Thickness

1 3/32"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end lap 2.2.

long. seams

Double butt triple

Diameter of rivet holes in

circ. seams 1 3/16"

long. seams

1 3/16"

Pitch of rivets

3 3/16"

3 3/16"

Percentage of strength of circ. end seams

plate 62.9
rivets 52.5

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 85.4
rivets 88
combined 88.2

Working pressure of shell by Rules

195 lbs

Thickness of butt straps

outer 7/8"

inner 1"

No. and Description of Furnaces in each Boiler

Two marine

Material

S.M. steel

Tensile strength

26-30 T

Smallest outside diameter

3' 11 7/8"

Length of plain part

top -

bottom -

Thickness of plates

crown 2 1/32"

bottom 1 3/32"

Description of longitudinal joint

welded

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

none

Working pressure of furnace by Rules

200 lbs

End plates in steam space: Material

S.M. steel

Tensile strength

26-30 T

Thickness

1 1/8"

Pitch of stays

17" x 16"

How are stays secured

Secured in plates and nutted outside

Working pressure by Rules

210 lbs

Tube plates: Material

front S.M. steel
back S.M. steel

Tensile strength

26-30 T

Thickness

1 3/16"

3/4"

Mean pitch of stay tubes in nests

8" - 12"

Pitch across wide water spaces

14 3/4"

Working pressure

front 197 lbs
back 185 lbs

Girders to combustion chamber tops: Material

S.M. steel

Tensile strength

28-32 T

Depth and thickness of girder

at centre

8 1/2 x 2 x 3/4

Length as per Rule

2' 7 1/2"

Distance apart

8 1/2"

No. and pitch of stays

in each

two a 10"

Working pressure by Rules

298 lbs

Combustion chamber plates: Material

S.M. steel

Tensile strength

26-30 T

Thickness: Sides

7/8"

Back

3/4"

Top

7/8"

Bottom

7/8"

Pitch of stays to ditto: Sides

9 3/4 x 10"

Back

8" x 7 3/4"

Top

10" x 8 1/2"

Are stays fitted with nuts or riveted over

Pinched

Working pressure by Rules

207 lbs

Front plate at bottom: Material

S.M. steel

Tensile strength

26-30 T

Thickness

1 3/16"

Lower back plate: Material

S.M. steel

Tensile strength

26-30 T

Thickness

3/4"

Pitch of stays at wide water space

15 5/8"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

312 lbs

Main stays: Material

S.M. steel

Tensile strength

26-30 T

Diameter

At body of stay, 2 1/2"

or

Over threads 2 3/4"

No. of threads per inch

9

Area supported by each stay

272 sq in

Working pressure by Rules

203 lbs

Screw stays: Material

S.M. steel

Tensile strength

26-30 T

Diameter

At turned off part, 1 3/8"

or

Over threads 1 1/2"

No. of threads per inch

9

Area supported by each stay

97.5, 62, 85 sq in

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REPORT ON BOILERS

Working pressure by Rules ^{105 lbs} ~~202 lbs~~ ^{212 lbs} Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 5/8" or Over threads 1 3/4" ✓

No. of threads per inch 9 ✓ Area supported by each stay 84 sq" Working pressure by Rules 216 lbs

Tubes: Material Steel ✓ External diameter { Plain 2 3/4" Stay 2 3/4" ✓ Thickness { 16.8 LSG ✓ 2 1/6 & 9/32 ✓ No. of threads per inch 9 ✓

Pitch of tubes 4" ✓ Working pressure by Rules 207 lbs Manhole compensation: Size of opening in shell plate 20 3/4" x 16 3/4" ✓ Section of compensating ring 8 1/4 x 8 1/8" ✓ No. of rivets and diameter of rivet holes 42 @ 1 7/16"

Outer row rivet pitch at ends 7" ✓ Depth of flange if manhole flanged 3 1/2" ✓ Steam Dome: Material _____

Tensile strength _____ Thickness of shell _____ Description of longitudinal joint _____

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

Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter of stays _____ Inner radius of crown _____ Working pressure by Rules _____

How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell _____

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 yes ✓

The foregoing is a correct description, _____
Manufactured _____

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 - - - } 1926 Aug 27, Sep 15, 27, 30, Oct 7, 8, 9, 13, 18, 19, 20, 21, 23, 23, Total No. of visits fifteen

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built at Kattawan under special survey and satisfactorily fitted on board this vessel by the Cantiere Navale Triestino at Monfalcone. The installation for oil fuel has been fitted as per approved plans and in accordance with the requirements of Section 49 of the Rules 1921-22.

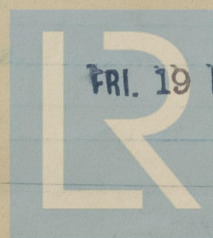
Survey Fee ... See Invoice: Report When applied for, 192

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

R. H. Harris
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 12 NOV 1926

Assigned See S. & M. attached



FRI. 19 NOV 1926

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