

REPORT ON BOILERS.

No. 18965.

Received at London Office

10 OCT 1928

Date of writing Report

y. 9. - 28

When handed in at Local Office 2nd OCTOBER 1928.

Port of

Greenock

No. in Survey held at

Greenock

Date, First Survey 21st February 1928. Last Survey 29th September 1928.

Reg. Book.

on the

S/S "Tomislav"

(Number of Visits 1)

Gross

Tons

Net

Master

Built at

P. Glasgow

By whom built

R. Duncan & Co.

Yard No.

386

When built

1928

Engines made at

Greenock

By whom made

John & Richard & Co.

Engine No.

650

When made

1928

Boilers made at

ditto

By whom made

ditto

Boiler No.

650

When made

1928

Nominal Horse Power

Owners

Baburina & Co. (Manager)

Port belonging to

Dubrovnik

MULTITUBULAR BOILERS - MAIN, ~~HEATING, OR DONKEY~~

Manufacturers of Steel

Steel Co. of Scotland W. & A. Bergbau

(Letter for Record

S

Total Heating Surface of Boilers

4528.8

7529

Is forced draught fitted

yes

Coal or Oil fired

coal

No. and Description of Boilers

3 Single ended

SSB

Working Pressure

180

Tested by hydraulic pressure to

320

Date of test

24. 8. 28

No. of Certificate

1843 (S.S.B.)

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

594

No. and Description of safety valves to each boiler

Double spring

High lift?

Area of each set of valves per boiler

per Rule

8

as fitted

8.29

Pressure to which they are adjusted

185

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

10

Is oil fuel carried in the double bottom under boilers

no

Smallest distance between shell of boiler and tank top plating

24"

Is the bottom of the boiler insulated

no

Largest internal dia. of boilers

14. 10 2 1/2

Length

11. 6"

Shell plates: Material

S

Tensile strength

28-32

Thickness

17/32"

Are the shell plates welded or flanged

yes

Description of riveting: circ. seams

end

OR

long. seams

T.R.D.B.S.

Diameter of rivet holes in

circ. seams

15/16"

long. seams

1 1/4"

Pitch of rivets

3.924

8.23/32

Percentage of strength of circ. end seams

plate

66.5

rivets

46.5

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

85.66

rivets

88.76

Working pressure of shell by Rules

181

Thickness of butt straps

outer

15/16"

inner

1 1/16"

No. and Description of Furnaces in each Boiler

3 Deighton

3cf

Material

S

Tensile strength

26

30

Smallest outside diameter

3'-8"

1/8"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

9/16"

Description of longitudinal joint

weld

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

Working pressure of furnace by Rules

185

End plates in steam space: Material

S

Tensile strength

26

30

Thickness

17/32"

Pitch of stays

20 1/2 x 20 1/2"

How are stays secured

D.N. + Washers

Working pressure by Rules

184

Tube plates: Material

front

back

Steel

Tensile strength

26

30

Thickness

13/16"

11/16"

Mean pitch of stay tubes in nests

10 1/2"

Pitch across wide water spaces

13 1/2"

Working pressure

front

191

back

200

Girders to combustion chamber tops: Material

Steel

Tensile strength

28

32

Depth and thickness of girder

at centre

9 1/2 x 3 1/4 (2)

Length as per Rule

2: 9 1/2"

Distance apart

10"

No. and pitch of stays

in each

3 at 8"

Working pressure by Rules

186

Combustion chamber plates: Material

S

Tensile strength

26-30

Thickness: Sides

21/32"

Back

21/32"

Top

21/32"

Bottom

13/16"

Pitch of stays to ditto: Sides

9 1/2 x 8"

Back

9 3/4 x 8 7/16"

Top

8 1/2 x 10"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

180

Front plate at bottom: Material

S

Tensile strength

26

30

Thickness

13/16"

Lower back plate: Material

S

Tensile strength

26

30

Thickness

25/32"

Pitch of stays at wide water space

13 3/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

184

Main stays: Material

Steel

Tensile strength

28

32

Diameter

At body of stay,

or

Over threads

3 1/4"

No. of threads per inch

6

Area supported by each stay

420.25

Working pressure by Rules

191

Screw stays: Material

S

Tensile strength

26

30

Diameter

At turned off part,

or

Over threads

1 5/8"

No. of threads per inch

9

Area supported by each stay

80"

Working pressure by Rules 185 Are the stays drilled at the outer ends No Margin stays Diameter { At turned off part, 1 3/4 or Over threads ✓

No. of threads per inch 9 Area supported by each stay 98.7 Working pressure by Rules 183

Tubes: Material 200 Internal diameter { Plain 2 1/2 Stay 2 1/2 Thickness 3/8 5/16 No. of threads per inch 9

Pitch of tubes 3 1/4 x 3 1/4 Working pressure by Rules 183 Manhole compensation: Size of opening in shell plate 20 1/2 x 16 1/2 Section of compensating ring 2: 11 3/4 x 2 7/8 x 1 1/4 No. of rivets and diameter of rivet holes 36 at 1 3/8

Outer row rivet pitch at ends 9 1/2 1/8 Depth of flange if manhole flanged 4" 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

FOR JOHN G. KINCAID & COY. LIMITED

The foregoing is a correct description,

W. Gordon-Maclean

Manufacturer.

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

See Machinery Report

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) Yes

Total No. of visits ✓

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

These Boilers have been built under special survey in accordance with the approved plan. The workmanship & material are of good quality. They are now securely fitted on board. This Report accompanies that of the Machinery

Survey fee

Traveling Expenses

When applied for,

192

When received,

192

W. Gordon-Maclean

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 9 OCT 1928

Assigned

See accompanying mach^y report



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