

REPORT ON BOILERS.

No. 73609

Received at London Office

- 9 FEB 1949

Date of writing Report

10

When handed in at Local Office

7-2-

1949

Port of

GLASGOW.

of opening in

No. in
Reg. Book.

Survey held at

GLASGOW

Date, First Survey

6-10-48.

Last Survey

19.1.49.

19

on the

(Number of Visits

Tons { Gross
Net

Master

Built at

GOTHENBURG

By whom built

ERIKSSON & MEYER VIKENSSON

Hull No.

When built

Engines made at

By whom made

Engine No.

When made

Boilers made at

GLASGOW.

By whom made

BARCLAY CURLE, C.L.D.

Boiler No.

50

When made

les and pitch

Nominal Horse Power

282

Owners

Port belonging to

MULTITUBULAR BOILERS - ~~MAIN, AUXILIARY, OR~~ DONKEY.

shut off and

Manufacturers of Steel

COLVILLES & CO.

(Letter for Record 5.)

Total Heating Surface of Boilers

2120 sq ft x 2

Is forced draught fitted

Coal or Oil fired

pressure as per

No. and Description of Boilers

2 Single ended multitubular

Working Pressure 145 lbs/sq in

test pressure

Tested by hydraulic pressure to

265 lbs/sq in

Date of test

19.1.49

No. of Certificate

22815

Can each boiler be worked separately

drain cocks

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Area of each set of valves per boiler

{ per Rule
as fitted

Pressure to which they are adjusted

Are they fitted with easing gear

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

Manufacturers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

13' 1 1/2"

Length

11' 6"

Shell plates: Material

Steel

Tensile strength

28-32 tons

Thickness

29/32

Are the shell plates welded or flanged

✓

Description of riveting: circ. seams

{ end
inter.

long. seams

TR DSS.

Diameter of rivet holes in

{ circ. seams
long. seams

1 1/8"

Pitch of rivets

3-6"

Percentage of strength of circ. end seams

{ plate
rivets

69%

Percentage of strength of circ. intermediate seam

{ plate
rivets

✓

Percentage of strength of longitudinal joint

{ plate
rivets

83.4%

Working pressure of shell by Rules

145 lbs/sq in

satisfactory

Thickness of butt straps

{ outer
inner

3/4"

No. and Description of Furnaces in each Boiler

2 Morrison Corrugation.

Material

Steel.

Tensile strength

26-30 tons.

Smallest outside diameter

46.625"

Length of plain part

{ top
bottom

✓

Thickness of plates

{ crown
bottom

1/8"

Description of longitudinal joint

Weld.

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

Working pressure of furnace by Rules

154 lbs/sq in

End plates in steam space: Material

Steel.

Tensile strength

26-30 tons.

Thickness

29/32"

Pitch of stays

16 3/4" x 16 3/4"

How are stays secured

Welded inside & outside as per plan.

Working pressure by Rules

162 lbs/sq in

Tube plates: Material

{ front
back

Steel.

Tensile strength

26-30

26-30

Thickness

29/32"

29/32"

Mean pitch of stay tubes in nests

10 5/8"

Pitch across wide water spaces

14 x 8 3/8"

Working pressure

{ front
back

153 lbs/sq in

168 lbs/sq in

Girders to combustion chamber tops: Material

Steel

Tensile strength

28-32 tons.

Depth and thickness of girder

at centre

7 x 1 1/2"

Length as per Rule

28 1/4"

Distance apart

8 5/8"

No. and pitch of stays

in each

Welded as per plan

Working pressure by Rules

155 lbs/sq in

Combustion chamber plates: Material

Steel

Tensile strength

26-30 tons.

Thickness: Sides

29/32"

Back

29/32"

Top

29/32"

Bottom

29/32"

Pitch of stays to ditto: Sides

10 x 8

Back

10 x 8

Top

✓

Are stays fitted with nuts or riveted over

Riveted except margin which are riveted

Working pressure by Rules

148 lbs/sq in

Front plate at bottom: Material

Steel

Tensile strength

26-30 tons.

Thickness

29/32"

Lower back plate: Material

Steel

Tensile strength

26-30 tons.

Thickness

29/32"

29/32"

Pitch of stays at wide water space

14" x 8"

Are stays fitted with nuts or riveted over

Welded inside & outside with nuts as per plan.

Working Pressure

162 lbs/sq in

Main stays: Material

Steel

Tensile strength

28-32 tons.

Diameter

{ At body of stay,
or
Over threads

2 1/2"

No. of threads per inch

Welded inside & outside with nuts as per plan

Area supported by each stay

16 3/4" x 16 3/4"

Working pressure by Rules

193 lbs/sq in

Screw stays: Material

Steel

Tensile strength

26-30 tons.

Diameter

{ At turned off part,
or
Over threads

1 1/2"

1 5/8"

No. of threads per inch

9

Area supported by each stay

10 x 8

of Shipping

Diameter

{ At body of stay,
or
Over threads

2 1/2"

No. of threads per inch

Welded inside & outside with nuts as per plan

Area supported by each stay

16 3/4" x 16 3/4"

Working pressure by Rules

193 lbs/sq in

Screw stays: Material

Steel

Tensile strength

26-30 tons.

Diameter

{ At turned off part,
or
Over threads

1 1/2"

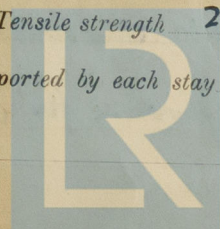
1 5/8"

No. of threads per inch

9

Area supported by each stay

10 x 8

Lloyd's Register
Foundation

003018-002022-0011

5-A 73609.

Working pressure by Rules 156 lbs Are the stays drilled at the outer ends ho Margin stays: Diameter { At turned off part, 1 1/8 or Over threads 1 1/8 Working pressure by Rules 158 lbs

No. of threads per inch 9 Area supported by each stay 12 x 8 Thickness { 9/16 No. of threads per inch 9

Tubes: Material Steel External diameter { Plain 3 Stay 3 Manhole compensation: Size of opening in shell plate 12 9/16 x 8 3/8 Working pressure by Rules 286 lbs

Pitch of tubes 12 9/16 x 8 3/8 Section of compensating ring 19 1/2 x 29 1/32 No. of rivets and diameter of rivet holes 44 @ 1 1/8

Outer row rivet pitch at ends 7 1/4 Depth of flange if manhole flanged 3 5/16 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

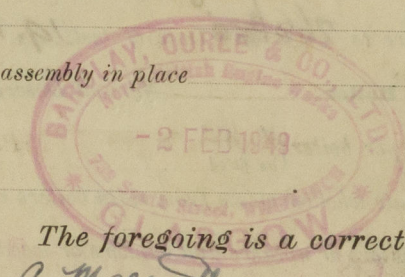
Type of Superheater Manufacturers of { Tubes Steel forgings Steel castings

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 forgings and 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 22 inclusive for boilers been complied with



The foregoing is a correct description,
A. Macneil Manufacturer.

Dates of Survey { During progress of work in shops - - - Oct 28. 6.10. Dec 24. Jan 4 9. 11. 17. 19. 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

Is this Boiler a duplicate of a previous case ho. If so, state Vessel's name and Report No.

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

These boilers have been constructed under Special Survey, in accordance with the Society's Rules and the approved plans. Materials and workmanship are good.

The Boilers have been despatched to Gothenburg for installation in the vessel.

Survey Fee £ 53 : 4 : - When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

m28

R Shaw
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 8 - FEB 1949

Assigned Deferred for completion.

11C TUES. 20 DEC 1949
In accordance with R.L.R.
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