

REPORT ON BOILERS.

No. 98670

See also Dun. Rpt. No 9194

Received at London Office

JUL 26 1940

NEWCASTLE-ON-TYNE

25/7/40 Port of

Date, First Survey

6 Feb 1940

Last Survey

15 July 1940

(Number of Visits)

Gross

4462.

Tons

Net 2663.

Writing Report

19

When handed in at Local Office

25/7/40 Port of

in Survey held at

Wallsend.

on the

s/s "Swickham"

at Dundee

By whom built

Caledon SB & Co Ltd.

Yard No.

385

When built 1940

and diam

es made at

Wallsend.

By whom made

C.E. Marine Eng Co (1958) Ltd

Engine No.

2949

When made 1940

holes and

rs made at

By whom made

Boiler No.

2949

When made 1940

nal Horse Power

Owners

Britain SB Co Ltd

Port belonging to

London

TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Steel Co of Scotland Ltd

(Letter for Record)

S

Heating Surface of Boilers

1680

Is forced draught fitted

no

Coal or Oil fired

Coal

and Description of Boilers

1 Aux SB

Working Pressure 220

ed by hydraulic pressure to

380

Date of test

7-6-40

No. of Certificate

854

Can each boiler be worked separately

✓

of Firegrate in each Boiler

38.5

No. and Description of safety valves to each boiler

1 Double.

of each set of valves per boiler

(per Rule 8.9

as fitted 9.82

Pressure to which they are adjusted

224 lbs.

Are they fitted with easing gear

yes.

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

No.

Manufacallest distance between boilers or uptakes and bunkers or woodwork

6'-0"

Is oil fuel carried in the double bottom under boilers

No

allest distance between shell of boiler and tank top plating

2'-6"

Is the bottom of the boiler insulated

yes

gest internal dia. of boilers

13'-0 1/32"

Length

10'-6"

Shell plates: Material

S

Tensile strength

29-33

ckness

1 7/64"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

DR

seams

T. R. D. B. S

Diameter of rivet holes in

(circ. seams 1 9/16"

(long. seams

Pitch of rivets

3 3/4"

9/8"

centage of strength of circ. end seams

(plate 65

rivets 45.2

Percentage of strength of circ. intermediate seam

(plate

rivets

centage of strength of longitudinal joint

(plate 85.6

rivets 87.1

(combined 88.6

ckness of butt straps

(outer 3 1/32"

inner 1 3/32"

No. and Description of Furnaces in each Boiler

2 cf

terial

Steel

Tensile strength

26-30

Smallest outside diameter

44 5/8"

ngth of plain part

(top ✓

bottom

Thickness of plates

(around 1 1/16"

bottom

Description of longitudinal joint

weld

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

d plates in steam space: Material

Steel

Tensile strength

26-30

Thickness

1 1/64"

Pitch of stays 22" x 16"

ow are stays secured

Double nuts.

be plates: Material

(front

Steel

Tensile strength

26-30

Thickness

5 1/32"

1 3/16"

ean pitch of stay tubes in nests

10.2"

Pitch across wide water spaces

14 1/2" x 8 3/4"

rders to combustion chamber tops: Material

Steel

Tensile strength

29-33

Depth and thickness of girder

centre

9 1/2" x 2 5/32" Dble

Length as per Rule

2'-8"

Distance apart

10 3/16"

No. and pitch of stays

each

2 @ 9 1/2"

Combustion chamber plates: Material

Steel

ensile strength

26-30

Thickness: Sides

2 5/32"

Back

2 5/32"

Top

2 5/32"

Bottom

2 5/32"

itch of stays to ditto: Sides

10" x 9 1/2"

Back

10 3/16" x 9 1/2"

Top

10 3/16" x 9 1/2"

Are stays fitted with nuts or riveted over

nuts

ront plate at bottom: Material

Steel

Tensile strength

26-30

thickness

3 1/32"

Lower back plate: Material

S

Tensile strength

26-30

Thickness

1 5/16"

itch of stays at wide water space

15" x 9 1/2"

Are stays fitted with nuts or riveted over

nuts

Main stays: Material

Steel

Tensile strength

28-32

diameter

(At body of stay, or Over threads

3"

No. of threads per inch

6

crew stays: Material

Steel

Tensile strength

26-30

diameter

(At turned off part, or Over threads

2"

No. of threads per inch

9

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Foundation

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Are the stays drilled at the outer ends

no

Margin stays: Diameter { At turned off part, or Over threads

2 1/2

No. of threads per inch

9

Tubes: Material SD Steel

External diameter { Plain Stay

3 1/4"

Thickness { 8. W.G. 3/8" x 5/16"

No. of threads per inch 9

Pitch of tubes 4 1/2" x 4 3/8"

Manhole compensation: Size of open

shell plate

Section of compensating ring

No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends

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

Thickness of crown

No. and diam

stays

Inner radius of crown

How connected to shell

Size of doubling plate under dome

Diameter of rivet holes and

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

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

Pressure to which the safety valves are adjusted

Hydraulic test press

tubes

forgings and castings

and after assembly in place

Are drain coc

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

yes

The foregoing is a correct description,
THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.

John Neill

Manufact

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.)

Total No. of visits

Is this Boiler a duplicate of a previous case

yes

If so, state Vessel's name and Report No. SS Tottenham Nwe 984

GENERAL REMARKS

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

This Auxiliary boiler has been made under Special Survey in accordance with the approved plan & the Requirements of the Rules. The materials & workmanship are good. The boiler found sound & tight under hydraulic pressure. The boiler has been despatched to Dundee for fitting on board.

Survey Fee

Travelling Expenses (if any)

See Machinery Report

When applied for,

19

When received,

19

R. C. Moffatt

Engineer Surveyor Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

12 NOV 1940

Assigned

SEE ACCOMPANYING MACHINERY REPORT.



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