

REPORT ON BOILERS.

No. 51198.

Received at London Office

14 MAY 1941

of writing Report

19

When handed in at Local Office

13 MAY 1941

Port of

HULL

in Survey held at

Hull

Date, First Survey

13.9.40

Last Survey

26.4.1941

on the

H.M.T. "COPINSA"

(Number of Visits 40)

Gross

Tons

Net

at

Selly

By whom built

Bochane & Sons Ltd

Yard No.

1224

When built

1941-44

ines made at

Hull

By whom made

Amos & Smith Ltd

Engine No.

685

When made

1941-44

lers made at

Hull

By whom made

Amos & Smith Ltd

Boiler No.

685

When made

1941-44

inal Horse Power

156

Owners

The Admiralty

Port belonging to

A.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

manufacturers of Steel

Appledy & Birmingham Steel Co. Ltd, Wolverhampton

(Letter for Record

S.

al Heating Surface of Boilers

2650 sq ft

Is forced draught fitted

Yes

Coal or Oil fired

coal

and Description of Boilers

One S.B.

Working Pressure

200 lb/sq in

sted by hydraulic pressure to

350 lb/sq in

Date of test

26.2.41

No. of Certificate

4090

Can each boiler be worked separately

Yes

ea of Firegrate in each Boiler

63 sq ft

No. and Description of safety valves to each boiler

2 - spring loaded

ea of each set of valves per boiler

per Rule 15.4 lb/sq in as fitted 16.6 lb/sq in

Pressure to which they are adjusted

200 lb/sq in

Are they fitted with easing gear

Yes

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

Yes

allest distance between boilers or uptakes and bunkers or woodwork

2'-0"

Is oil fuel carried in the double bottom under boilers

No.

allest distance between shell of boiler and tank top plating

None

Is the bottom of the boiler insulated

No.

rgest internal dia. of boilers

14'-9 3/8"

Length

11'-6"

Shell plates: Material

Steel

Tensile strength

29/33 tons/sq in

ickness

1 5/16"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

DR. lap

g. seams

T.R. - D.B.S.

Diameter of rivet holes in

circ. seams 1 3/8" long. seams 1 3/8"

Pitch of rivets

4"

ercentage of strength of circ. end seams

plate 65.6% rivets 44.7%

Percentage of strength of circ. intermediate seam

plate 85.5% rivets 88.5%

ercentage of strength of longitudinal joint

plate 88.8% rivets 88.8%

ickness of butt straps

outer 1 1/8" inner 1 1/8"

No. and Description of Furnaces in each Boiler

3 - cf. Brighton section

aterial

Steel

Tensile strength

26/30 tons per sq in

Smallest outside diameter

3'-6 7/16"

ength of plain part

top 19/32" bottom 19/32"

Thickness of plates

crown 19/32" bottom 19/32"

Description of longitudinal joint

Weld

imensions of stiffening rings on furnace or bottom

nd plates in steam space:

Material Steel

Tensile strength

26/30 tons per sq in

Thickness

1 1/2"

Pitch of stays

21" x 20 in

ow are stays secured

Nuts inside & out

be plates:

Material

front Steel back Steel

Tensile strength

26/30 tons per sq in

Thickness

7/8" 25/32"

ean pitch of stay tubes in nests

9 1/4"

Pitch across wide water spaces

13 5/8"

rders to combustion chamber tops:

Material Steel

Tensile strength

28/32 tons per sq in

Depth and thickness of girder

entre

8 1/4" x 1 7/8"

Length as per Rule

2'-7 15/32"

Distance apart

10 3/4"

No. and pitch of stays

each

2 - 9 7/8"

Combustion chamber plates: Material

Steel

ensile strength

26/30 tons per sq in

Thickness: Sides

25/32"

Back

3/4"

Top

25/32"

Bottom

25/32"

itch of stays to ditto:

Sides 10 3/4" x 9 7/8"

Back 9 1/4" x 9 7/8"

Top 10 1/4" x 9 7/8"

Are stays fitted with nuts or riveted over

Nuts

ront plate at bottom:

Material Steel

Tensile strength

26/30 tons per sq in

Thickness

7/8"

Lower back plate: Material

Steel

Tensile strength

26/30 tons per sq in

Thickness

7/8"

itch of stays at wide water space

14 1/2" x 9 7/8"

Are stays fitted with nuts or riveted over

Nuts

ain stays:

Material Steel

Tensile strength

28/32 tons per sq in

Diameter

At body of stay, or Over threads 3 1/8"

No. of threads per inch

6

crew stays:

Material Steel

Tensile strength

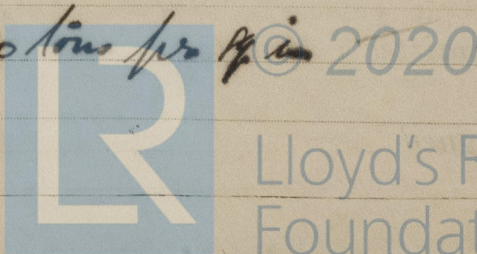
26/30 tons per sq in

Diameter

At turned off part, or Over threads 1 7/8"

No. of threads per inch

9



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Are the stays drilled at the outer ends

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

No. of threads per inch

Tubes: Material

External diameter { Plain Stay

Thickness {

No. of threads per inch

Pitch of tubes

shell plate

Section of compensating ring

No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends

Depth of flange of manhole flanged

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 diameter

stays

Inner radius of crown

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

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 pressure

tubes

forgings and castings

and after assembly in place

Are drain cocks

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,

FOR AMOS & SMITH LTD.

Manufacture

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

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

If so, state Vessel's name and Report No. H.M.T. 'ASH' Hull up to No. 50

GENERAL REMARKS

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

This boiler has been constructed under Special Survey in accordance with the Admiralty approved plans and the Lloyds Rules. The workmanship and materials are good and when subjected to an hydraulic test of 350 lbs per square inch it was found satisfactory in every respect.

Survey Fee £

Travelling Expenses (if any) £

When applied for,

19

When received,

19

Committee's Minute

FRI. 16 MAY 1941

Assigned

See Hull No. 51198

Engineer Surveyor to Lloyd's Register of Shipping.



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