

## REPORT ON BOILERS.

No. 57287

Received at London Office

15 AUG 1941

Date of writing Report

19

When handed in at Local Office

14 AUG 1941

Port of HULL.

No. in Survey held at

HULL.

Date, First Survey

7.9.40

Last Survey

21.5.41

No. Book

(Number of Visits)

Gross

452

Tons

Net

144

on the Steam Trawler

BALTA.

Built at

Beverly

By whom built

Cook Welling &amp; Gemmell Ltd

Yard No. 672

When built 1941-5

Engines made at

Hull

By whom made

Chas. S. Holmes &amp; Co

Engine No. 1572

When made 1941-5

Boilers made at

Hull

By whom made

- Ditto

Boiler No. 1574

When made 1941-5

Nominal Horse Power

156

Owners

The Admiralty

Port belonging to

✓

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Steel companies of Scotland.

(Letter for Record)

S.

Total Heating Surface of Boilers

2650 sq ft

Is forced draught fitted

Yes

Coal or Oil fired

Coal

No. and Description of Boilers

One SB.

Working Pressure

200 lbs sq in

Tested by hydraulic pressure to

350 lbs

Date of test

6.3.41

No. of Certificate

4091

Can each boiler be worked separately

Area of Firegrate in each Boiler

63 sq ft

No. and Description of safety valves to each boiler

2 - Spring loaded

Area of each set of valves per boiler

per Rule

15.4 sq in

as fitted

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

Yes

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

2'-0"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

None

Is the bottom of the boiler insulated

No

Largest internal dia. of boilers

14'-9 3/8"

Length

11'-6"

Shell plates: Material

Steel

Tensile strength

29/33 tons sq in

Thickness

1 5/16"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end SR, inter. none

long. seams

J.R. S.B.S.

Diameter of rivet holes in

circ. seams

1 3/8"

Pitch of rivets

4" 9 1/2"

Percentage of strength of circ. end seams

plate

65.6%

Percentage of strength of circ. intermediate seam

plate

Percentage of strength of longitudinal joint

plate

85.5%

Thickness of butt straps

outer

1 1/8"

No. and Description of Furnaces in each Boiler

3 of Slighter section

Material

Steel

Tensile strength

26/30 tons sq in

Smallest outside diameter

2'-6 3/16"

Length of plain part

top

Thickness of plates

crown

19/32"

Description of longitudinal joint

Weld

Dimensions of stiffening rings on furnace or tank bottom

End plates in steam space: Material

Steel

Tensile strength

26/30 tons sq in

Thickness

1 1/32"

Pitch of stays

21" x 20" max

How are stays secured

Nuts inside &amp; out

Tube plates: Material

front

Steel

Tensile strength

26/30 tons sq in

Thickness

7/8"

25/32"

Mean pitch of stay tubes in nests

9 1/16"

Pitch across wide water spaces

13 5/8"

Girders to combustion chamber tops: Material

Steel

Tensile strength

28/32 tons sq in

Depth and thickness of girder

at centre

8 1/4" x 1 7/8"

Length as per Rule

2'-7 5/32"

Distance apart

10 3/4"

No. and pitch of stays

in each

2 - 9 7/8"

Combustion chamber plates: Material

Steel

Tensile strength

26/30 tons sq in

Thickness: Sides

25/32"

Back

3/4"

Top

25/32"

Bottom

25/32"

Pitch of stays to ditto: Sides

10 3/4" x 9 7/8"

Back

9 1/4" x 9 7/8"

Top

10 3/4" x 9 7/8"

Are stays fitted with nuts or riveted over

nuts

Front plate at bottom: Material

Steel

Tensile strength

26/30 tons sq in

Thickness

7/8"

Lower back plate: Material

Steel

Tensile strength

26/30 tons sq in

Thickness

7/8"

Pitch of stays at wide water space

14 1/2" x 9 7/8"

Are stays fitted with nuts or riveted over

nuts

Main stays: Material

Steel

Tensile strength

28/32 tons sq in

Diameter

At body of stay

3/8"

No. of threads per inch

6

Screw stays: Material

Steel

Tensile strength

26/30 tons sq in

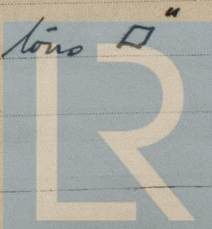
Diameter

At turned off part

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

Manhole compensation: Size of opening in

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

Steam Dome: Material

Tensile strength

Thickness of shell

Description of longitudinal joint

Diameter of rivet holes

Pitch of rivets

Percentage of strength of joint

Internal diameter

Thickness of crown

No. and diameter of

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

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

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,  
FOR CHARLES D. HOLMES & CO., LTD.

Manufacturer:

Dates

During progress of

of Survey

work in shops - -

while

During erection on

building

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.

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

This boiler has been constructed under Special Survey in accordance with the approved Admiralty plans and the Society's 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,

When received,

19

19

Committee's Minute

Assigned

TUE. 19 AUG 1941

Engineer Surveyor to Lloyd's Register of Shipping.



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