

REPORT ON BOILERS.

No. 33802

13 OCT 1943

Date of writing Report

19

When handed in at Local Office

12 OCT 1943

Port of

Received at London Office

Sunderland

No. in Survey held at

Reg. Book.

Date, First Survey

3 Aug.

Last Survey

29 Sep 1943

(Number of Visits

12)

Gross

Tons

7032

Net

4732

on the SS "EMPIRE ABBEY"

Built at

Newcastle

By whom built

Armstrong Whitworth

Yard No.

6.

When built

1944

Engines made at

Wallend.

By whom made

North Eastern Mar. Eng. Co. Ld.

Engine No.

3062

When made

1944

Boilers made at

Sunderland

By whom made

G. Clark (1938) Ld.

Boiler No.

1304

When made

1943

Nominal Horse Power

Owners

Ministry of War Transport

Port belonging to

Newcastle

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Total Heating Surface of Boilers

No. and Description of Boilers

Tested by hydraulic pressure to

Area of Firegrate in each Boiler

Area of each set of valves per boiler

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

Smallest distance between shell of boiler and tank top plating

Largest internal dia. of boilers

Thickness

Long. seams

Percentage of strength of circ. end seams

Percentage of strength of longitudinal joint

Thickness of butt straps

Material

Length of plain part

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

End plates in steam space: Material

How are stays secured

Tube plates: Material

Lean pitch of stay tubes in nests

Girders to combustion chamber tops: Material

At centre

At each

Tensile strength

Pitch of stays to ditto:

Front plate at bottom: Material

Thickness

Pitch of stays at wide water space

Main stays: Material

Diameter

Screw stays: Material

Diameter

At turned off part,

Over threads

Is forced draught fitted

Date of test

No. of Certificate

No. and Description of safety valves to each boiler

Pressure to which they are adjusted

Is oil fuel carried in the double bottom under boilers

Is the bottom of the boiler insulated

Shell plates: Material

Description of riveting: circ. seams

Diameter of rivet holes in

Percentage of strength of circ. intermediate seam

Percentage of strength of longitudinal joint

Tensile strength

Thickness of plates

No. and Description of Furnaces in each Boiler

Smallest outside diameter

Description of longitudinal joint

Tensile strength

Thickness

Tensile strength

Tensile strength

Pitch across wide water spaces

Tensile strength

Length as per Rule

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Tensile strength

Tensile strength

Are stays fitted with nuts or riveted over

Tensile strength

No. of threads per inch

Tensile strength

No. of threads per inch

(Letter for Record

Coal or Oil fired

Working Pressure

Can each boiler be worked separately

Are they fitted with easing gear

Tensile strength

Pitch of rivets

Percentage of strength of circ. intermediate seam

Tensile strength

Description of longitudinal joint

Tensile strength

Thickness

Tensile strength

Tensile strength

Tensile strength

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Tensile strength



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Foundation

005141-005153-0235

Are the stays drilled at the outer ends

no.

Margin stays: Diameter { At turned off part, or Over threads 1 1/8" - 1 1/2"

No. of threads per inch

9.

Tubes: Material S.D. Steel

External diameter

Plain

3"

Stay

3"

Thickness

8 W.G.

3/8" - 5/16"

No. of threads per inch

9.

Pitch of tubes

4 1/4" - 4 1/8"

shell plate

(In end 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 1/4"

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 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

None.

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,

Manufacturer.

Dates

During progress of

work in shops - -

while

building

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 12

Is this Boiler a duplicate of a previous case

No.

If so, state Vessel's name and Report No.

Empire Manor Sld Rpt. 33445

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

This boiler has been constructed under Special Survey in accordance with the approved plan, rules of the Society & the Specification. The materials & workmanship are good. On completion the boiler was tested by hydraulic pressure of 380 lbs. & found tight & sound at that pressure.

It has been despatched to Wallsend for installation by Messrs. The North Eastern Marine Dry Dock Co. in despatching to their work Ship No. 6.

This boiler has been installed on board & found satisfactory under steam.

Beliffitt

Survey Fee

+25% Spec 14

When applied for,

12 OCT 1943

Travelling Expenses (if any) £

When received,

19

J. H. Haser

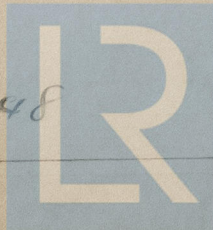
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 4 APR 1944

Assigned

See Note p. 1019 48



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