

REPORT ON BOILERS.

No. 65770

Received at London Office 29 JUL 1942

Date of writing Report

19

When handed in at Local Office

27.7.1942

1942

Port of

Glasgow.

No. in Survey held at

13

13

on the

built at Glasgow.

By whom built

Harland & Wolff Ltd

Yard No.

11176

When built

1942

engines made at

do

By whom made

do

Engine No.

11176

When made

1942

boilers made at

Manchester

By whom made

J. Adamson & Co. Ltd.

Boiler No.

99

When made

1942

nominal Horse Power

Owners

Port belonging to

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

Manufacturers of Steel

(Letter for Record

Total Heating Surface of Boilers

Is forced draught fitted

Yes

Coal or Oil fired

Oil

No. and Description of Boilers

Working Pressure

150 lb

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

One 2 1/4" dia Double Spring Improved H.L.

Area of each set of valves per boiler

per Rule

3.63 sq inch

Pressure to which they are adjusted

150 lb.

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

will clear

Is oil fuel carried in the double bottom under boilers

Yes

Smallest distance between shell of boiler and tank top plating

Yes

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

Long. seams

Diameter of rivet holes in

Pitch of rivets

Percentage of strength of circ. end seams

plate

Percentage of strength of circ. intermediate seam

plate

Percentage of strength of longitudinal joint

plate

Percentage of strength of longitudinal joint

combined

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

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

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Tube plates: Material

front

back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre

Length as per Rule

Distance apart

No. and pitch of stays

in each

Combustion chamber plates: Material

Tensile strength

Thickness

Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Main stays: Material

Tensile strength

Diameter

At body of stay,

or

Over threads

No. of threads per inch

Screw stays: Material

Tensile strength

Diameter

At turned off part,

or

Over threads

No. of threads per inch



© 2020

Lloyd's Register Foundation

002457-002464-0217

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

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 { 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

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

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,

Manufacture

Dates of Survey { 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.)

SEE ACCOMPANYING MACHINERY REPORT.

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.)

These boilers have been satisfactorily fitted on board. Safety valves adjusted under steam to 150 lbs per sq inch and found satisfactory. Safety valve compression washers. Port Boiler P. 7/16" S. 1/16" Starb Boiler P. 3/16" S. 1/16"

Ed
25/7/46

Survey Fee ... £ : ✓ :

When applied for, 19

Travelling Expenses (if any) £ : ✓ :

When received, 19

G. E. Murdoch.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 21 JUL 1942

Assigned

SEE ACCOMPANYING MACHINERY REPORT.



© 2020

Lloyd's Register Foundation