

Rpt. 5a.

REPORT ON BOILERS.

No. 27463

Date of writing Report

191

When handed in at Local Office

28 MAR 1919

Port of

SUNDERLAND

SAT. 29 MAR 1919

No. in

Survey held at

Sunderland

Date, First Survey

9th May '18

Last Survey

7th March 1919

Reg. Book.

on the

2 Single ended Main Boilers by Maccoll & Pollock Ltd (297)

Number of Visits

13

Gross

Tons

Net

Master

Built at

By whom built

When built

Engines made at

By whom made

When made

Boilers made at

Sunderland

By whom made

Maccoll & Pollock (297)

When made

1919

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Spencer & Sons

(Letter for record

5)

Total Heating Surface of Boilers

3650 sq

Is forced draft fitted

Yes

No. and Description of

Boilers 2 Single ended

Working Pressure

200 lbs

Tested by hydraulic pressure to

400 lbs

Date of test

7.3.19

No. of Certificate

3530, 3545

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Mean dia. of boilers

Length

Material of shell plates

S

Thickness

1 1/4

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

lap at

long. seams

d. 1 1/2 riv.

Diameter of rivet holes in long. seams

1 1/4

Pitch of rivets

9 5/8

Lap of plates or width of butt straps

19"

Per centages of strength of longitudinal joint

rivets

86

Working pressure of shell by

rules

200

Size of manhole in shell

16 x 12

Size of compensating ring

35 1/2 x 31 1/2 x 1 1/4

No. and Description of Furnaces in each

boiler 3 diam

Material

S

Outside diameter

41 3/4

Length of plain part

top

bottom

Thickness of plates

crown

bottom

3 9/16

Description of longitudinal joint

welded

No. of strengthening rings

-

Working pressure of furnace by the rules

plates: Material

S

Thickness: Sides

1/16

Back

1/16

Top

1/16

Bottom

Pitch of stays to ditto: Sides

8 3/4 x 9

Back

9 x 8

Top

9 x 8 1/2

If stays are fitted with nuts or riveted heads

Yes

Working pressure by rules

smallest part

2.03 sq

Area supported by each stay

78 3/4

Working pressure by rules

232

End plates in steam space: Material

S

Thickness

1 1/16

Pitch of stays

7 1/2 x 7 1/2

How are stays secured

d. n. r. w.

Working pressure by rules

206

Material of stays

S

Area at smallest part

Area supported by each stay

306 sq

Working pressure by rules

207

Material of Front plates at bottom

S

Thickness

1"

Material of

Lower back plate

S

Thickness

1"

Greatest pitch of stays

14"

Working pressure of plate by rules

250

Diameter of tubes

2 1/2

Pitch of tubes

3 3/4 x 3 1/4

Material of tube plates

S

Thickness: Front

1"

Back

3/4

Mean pitch of stays

7 1/2 x 1 1/4

Pitch across wide

ter spaces

13 1/4

Working pressures by rules

204

Girders to Chamber tops: Material

S

Depth and thickness of

der at centre

8 x 1 3/4

Length as per rule

31"

Distance apart

8 1/2"

Number and pitch of Stays in each

2, 9"

Working pressure by rules

201

Steam dome: description of joint to shell

-

% of strength of joint

-

Diameter

-

Thickness of shell plates

-

Material

-

Description of longitudinal joint

-

Diam. of rivet holes

-

Pitch of rivets

-

Working pressure of shell by rules

-

Crown plates

-

Thickness

-

How stayed

-

SUPERHEATER. Type

-

Date of Approval of Plan

-

Tested by Hydraulic Pressure to

-

Date of Test

-

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

-

Diameter of Safety Valve

-

Pressure to which each is adjusted

-

Is Easing Gear fitted

-

The foregoing is a correct description,

MacColl & Pollock, Ltd.

J. A. Richardson

Manufacturer.

Director.

Yes

Dates of Survey

During progress of work in shops - - -

1918 May 9, Oct 22, Nov 19, Dec 10, 18, Jan 8, 13, 29

During erection on board vessel - - -

Feb 10, Mar 7

Is the approved plan of boiler forwarded herewith

Total No. of visits

13

GENERAL REMARKS

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

These Boilers have been built under special survey. The materials and workmanship are sound and good. The tubes were originally intended to be fitted in a 'Patrol tugboat' but are now stuck boilers and will be sold.

FRI. NOV. 30 1923

TUE. 20 NOV. 1923

FRI. AUG. 31 1923

Survey Fee

£ 10 : 14 : -

When applied for,

28 MAR 1919

Travelling Expenses (if any) £

When received,

25.19.19

TUE. JUN. 20 1922

TUE. 13 JUN. 1922

FRI. 9 MAR 1923

Committee's Minute

Assigned

See Minute on 14.1.1963

Engineer Surveyor to Lloyd's Register of Shipping

Lloyd's Register Foundation

011091-011098-0257