

Rpt. 5e.

18 FEB 1944

IN D.O.

REPORT ON BOILERS.

No. 68114

28 AUG 1944

Date of writing Report

19

When handed in at Local Office

14 2 19 44

Port of

GLASGOW

No. in Survey held at
Reg. Book.

ANNAN

9 Hull

Date, First Survey

Nov. 26th, 1943

Last Survey

8th February, 1944

(Number of Visits

7

Gross

Net

on the

THORNE.

Built at

Great Yarmouth.

By whom built

Richard Dunston & Co. Ltd.

Yard No.

T 511

When built

1944

Boilers made at

ANNAN

By whom made

Cochran & Co. Annan Ltd

Boiler No.

X.T.11155

When made

1944

Owners

The Admiralty

M.O.W.T.

Port belonging to

VERTICAL DONKEY BOILER—

No. One

Description

Cross tube

Manufacturers of steel

Colvilles, Ltd.

Made at

Annan

By whom made

Cochran & Co. Annan Lt.

When made

194

Where fixed

Working pressure

120

tested by hydraulic pressure to

230

Date of test

8.2.44

No. of Certificate

21652

Fire grate area

22.5

Description of safety valves

Ordinary

No. of safety valves

2

Area of each

3.14

Pressure to which they are adjusted

120 lb

If fitted with easing gear

yes

If steam from main boilers can

enter the donkey boiler

--

Range of tensile strength

28-32

Description of riveting long. seams

D.R. lap

Diameter of rivet holes

27/32"

Whether punched or

drilled

drilled

Pitch of rivets

2.65" 2.67"

Rules

132

Thickness of shell crown plates

25/32"

Radius of do.

6'2"

No. of stays to do.

--

Diameter of stays

--

Diameter of

furnace—Top

5'1 1/2"

Bottom

5'5"

Length of furnace

6'8 1/2"

Thickness of furnace side plates

5/8"

Description of joint

Elec. Weld

Working

pressure of furnace by rules

131

Thickness of Ogee ring

--

Working pressure of Ogee ring by rules

--

Thickness of furnace

crown plates

13/16"

Radius of do.

5'0"

Stayed by

plates

5/8"

Thickness of tube plates

front

--

back

Mean pitch of stay tubes in nest

--

Pitch in outer vertical rows

--

--

Diameter of tube holes

FRONT

stay

--

BACK

stay

--

Working pressure of tube plates by rules

--

Tubes: Material

S

--

External diameter

stay

12 1/2"

Thickness

stay

7/16"

No. of threads per inch

Welded in

Pitch of tubes

20 1/2"

--

--

Working pressure by rules

120"

Manhole compensation: Size of opening in shell plate

16" x 20 1/2"

Section of compensating

ring

7 x 1.1/16"

No. of rivets and diameter of rivet holes

48 @ 27/32"

Outer row pitch at ends

3.34"

--

For COCHRAN & CO. ANNAN, LTD.

The foregoing is a correct description,

Technical Sales Manager

Manufacturer

--

--

--

--

--

--

--

--

Dates of Survey while building

During progress of work in shops

1943: Nov. 26, Dec. 9, 17, 1944: Jan. 14, 28, Feb. 4, 8.

During erection on board vessel

--

Total No. of visits

7.

Drawing No.

27093A.

--

--

--

Is the approved plan of boiler forwarded herewith

No.

Retained for duplicate case.

--

--

--

--

--

--

--

--

--

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

The materials and workmanship are good.

The boiler has been constructed under special Survey and in accordance with Admiralty

Specification, for a 66'0" steam puffer.

The boiler will be sent to Great Yarmouth to be fitted in the vessel.

Fitted onboard, examined under steam and safety valves adjusted under steam to

flow off at 120 lb p.s.f. inch. Water P. 1/4" S. 1/4".

Vessel - not to be classed.

Geo. A. Lang

Hull. 13 July, 1944.

--

--

Survey Fee

...

£ 4. : 4. : -

Specification

...

£ 1. : 1. : -

Travelling Expenses (if any)

£

When applied for

Mon 4/10

19

When received

19

Committee's Minute

Assigned

Transmit to Birmingham

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation