

30 OCT 1941

Sld. No. 33234

REPORT ON BOILERS.

Sld. No. 64078

Date of writing Report

10

Written and in at Local Office

14. 7. 41

Received at London Office

17 JUL 1941

Port of

Glasgow

No. in Survey held at

Annan

Date, First Survey

1941 Feb. 28

Last Survey

8-7-

1941

Reg. Book.

on the

"EMPIRE RALIEGH."

(Number of Visits 15)

Gross 7240

Net 5048

Built at

Sunderland

By whom built

Wm. Dargy & Sons Ltd

Yard No.

677

When built

1941

Boilers made at

Annan

By whom made

Cochran & Co. Annan Ltd

Boiler No.

15008

When made

1941

Owners

Ministry of War Transport

Port belonging to

Sunderland

VERTICAL DONKEY BOILER—

No. one

Description

Donkey boiler

Manufacturers of steel

Cochran & Co. Ltd

Made at

Annan

By whom made

Cochran & Co. Annan Ltd

When made

1941

Where fixed

on vessel

Working pressure

120

tested by hydraulic pressure to

230

Date of test

8-7-41

No. of Certificate

20789

Fire grate area

—

Description of safety valves

Safety spring

No. of safety valves

2

Area of each

4.0 sq

Pressure to which they are adjusted

120

If fitted with easing gear

No

If steam from main boilers can enter the donkey boiler

Range of tensile strength

28-32 tons

Description of riveting long. seams

DR Lap

Diameter of rivet holes

1 1/32

Whether punched or

drilled

drilled

Pitch of rivets

3.15", 3.15", 3 1/8"

Lap of plating

5"

Per centage of strength of joint

Rivets 66.2 53.9

Working pressure of shell by

rules

127.5

Thickness of shell crown plates

1 1/32, 1 1/32

Radius of do.

4'-0"

No. of stays to do.

—

Diameter of stays

—

Diameter of

furnace—Top

—

Bottom

7'-0"

Length of furnace

—

Thickness of furnace side plates

2 3/32

Description of joint

Seamless

Working

pressure of furnace by rules

144

Thickness of Ogee ring

1 1/32

Working pressure of Ogee ring by rules

124

Thickness of furnace

crown plates

2 3/32

Radius of do.

plates

2 3/32

Radius of do.

3'-6"

Stayed by

Hemisphere

Diameter of uptake

21 1/2 x 25

Thickness of uptake

plates

2 3/16

Thickness of tube plates

Diameter of tube holes

FRONT

stay 2 1/4 x 1 1/4

plain 2 1/4 x 1 1/4

BACK

stay 2 1/4 x 1 1/4

plain 2 1/4 x 1 1/4

Working pressure of tube plates by rules

B-196. 161

Tubes: Material

S

External diameter

stay 2" 11"

plain 2" 11"

Thickness

stay 10/32

No. of threads per inch

9

Pitch of tubes

2 9/8 x 2 1/16

3.18 x 3.13

Working pressure by rules

215 290

Manhole compensation; Size of opening in shell plate

21 x 17

Section of compensating

ring

7 1/2 x 1 1/2

No. of rivets and diameter of rivet holes

40 @ 1 1/32

Outer row pitch at ends

4.03"

—

—

—

The foregoing is a correct description, *GMB*.

T. R. R.

Manufacturer

FOR COCHRAN & CO. ANNAN, LTD.

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits

1941 Feb. 28 Mar. 7, 20, 27, Apr. 4, 18, May 6, 16, June 4, 11, 19 July 3, 8.

13

Drawing No. 25112

Is the approved plan of boiler forwarded herewith *no*

Retained for boiler No. 15008. *copy in head office*

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

The material and workmanship are good.

The boiler has been constructed under special survey.

This boiler has been securely fixed on board the vessel & safety valves adjusted to working pressure as above.

In recommendation please see Machinery Rpt.

J. H. R. R.

Survey Fee ... £ 5 : 14 :

Travelling Expenses (if any) £ :

When applied for ... 19

When received ... 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 15 JUL 1941

Assigned *by order*

FRI. 7 NOV 1941

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

00775-00735-0197