

REPORT ON BOILERS.

No. 50860

Received at London Office 24 SEP 1930 18 MAR 1931

Date of writing Report

19

When handed in at Local Office

23/9/30

Port of

GLASGOW

No. in
Reg. Book.

Survey held at

Annan

Date, First Survey

1.8.30

Last Survey

19th September 1930

on the

Boiler No. 11738 S/S Macduin

(Number of Visits 8)

Tons

Gross 4561

Net 2626

Master

Built at

Glasgow

By whom built

Barclay Curle & Co. (644)

When built

1931

Boilers made at

Annan

By whom made

Messrs. Buchanan & Co. Ltd. Annan

When made

1930

Owners

Messrs. Philip & Co. Ltd.

Port belonging to

Sydney

VERTICAL DONKEY BOILER

No. One

Description Vertical

Manufacturers of steel D. Caldwell & Sons Ltd.

Made at

Annan

By whom made

Buchanan & Co. Annan Ltd.

When made

1930

Where fixed

Inguis Room

Working pressure 100

tested by hydraulic pressure to

200

Date of test

19-9-30

No. of Certificate

18826

Fire grate area

755

Description of safety valves

Enclosed spring

No. of safety valves

2

Area of each

1.767

Pressure to which they are adjusted

150 lb

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

No

Diameter of donkey boiler

3'-9"

Length

10'-0"

Range of tensile strength

28-32

Description of riveting long. seams

D.R. Lap

Diameter of rivet holes

23/32"

Whether punched or

drilled

drilled

Pitch of rivets

2-292, 2-239, 2-141

Lap of plating

3 3/4"

Pitch of rivets

2-292, 2-239, 2-141

Lap of plating

3 3/4"

Per centage of strength of joint

Rivets 27-7

Working pressure of shell by

Plates 66-4

Diameter of stays

5 R dep

Diameter of

furnace—Top

3'-0"

Bottom

3'-2 1/8"

Length of furnace

2'-10 1/8"

Thickness of furnace side plates

1/2"

Description of joint

E.W.

Working

pressure of furnace by rules

173.2

Thickness of Ogee ring

Working pressure of Ogee ring by rules

Thickness of furnace

crown plates

1/2"

Radius of do.

1'-11"

Stayed by

Hemisphere

Diameter of uptake

8 1/2' x 13 3/4"

Thickness of uptake

plates

1/2"

Thickness of tube plates

front 1/4"

back 17/32"

Mean pitch of stay tubes in nest

8.843"

Pitch in outer vertical rows

7 1/8"

Diameter of tube holes

FRONT

stay 2 1/16"

plain 2 9/16"

BACK

stay 2 1/2"

plain 2 1/2"

Working pressure of tube plates by rules

F 111.6

Tubes: Material

What Iron

External diameter

stay 2 1/2"

plain 2 1/2"

Thickness

stay 1 1/32"

No. of threads per inch

9

Pitch of tubes

3 1/2' x 3 9/16"

Working pressure by rules

125

Manhole compensation; Size of opening in shell plate

16' x 12"

Section of compensating

ring

5 1/4' x 3 1/4"

No. of rivets and diameter of rivet holes

32 off. 23/32"

Outer row pitch at ends

4 3/8"

FOR COCHRAN & CO., ANNAN, LTD.

R. Rex

Manufacturer.

GENERAL WORKS MANAGER

Drawing No.

18143

Dates

During progress of work in shops

1930. Aug 1.8.15.18.22.28 Sept 5.19.

of Survey

while building

During erection on board vessel

8.

Total No. of visits

Is the approved plan of boiler forwarded herewith

Yes.

GENERAL REMARKS

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

This boiler has been built under

survey, in accordance with the Rules and approved plan.

The materials and workmanship are good.

This boiler has been built to the order of Messrs. J. G. Kincaid & Co. Greenock, and is intended for their N° K. 654

This Boiler has now been securely fitted on board

H.M.S. Gordon-Macduin

Survey Fee

£ 4 : 4

When applied for

19

Travelling Expenses (if any)

£ :

When received

19

MONTHLY ACCOUNT

Committee's Minute

GLASGOW 23 SEP 1930

Assigned

TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

W192-0303