

REPORT ON BOILERS.

Sld. N° 31245

Sld. No. 53396

19 APR 1933

12 JUL 1933

Date of Survey Report

19

When handed in at Local Office

14.4.33

Port of

Glasgow

No. in Survey held at
Reg. Book.

Annan

Date, First Survey

15.2.33

Last Survey

7.4.33

1933

on the

BOILER N° 12492

(Number of Visits 3)

Gross 1049

Net 525

Master

Built at

Burntisland

By whom built

Burntisland S. B. & Co. Ltd

When built

1933

Boilers made at

Annan

By whom made

Cochran & Co. Annan Ltd

When made

1933

Owners

Joseph Constantine & S. Line. Ltd

Port belonging to

Middlenburgh.

VERTICAL DONKEY BOILER—

No. one

Description

Vertical

Manufacturers of steel

Steel Co. of Sullane

Made at

Annan

By whom made

Cochran & Co. Annan Ltd

When made

1933

Where fixed

—

Working pressure

125

tested by hydraulic pressure

238

Date of test

7.4.33

No. of Certificate

19221

Fire grate area

16.75

Description of safety valves

enclosed spring

No. of safety valves

2

Area of each

3/4"

Pressure to which they are adjusted

125

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

No.

Diameter of donkey boiler

5'-6"

Length

12'-3"

Material of shell plates

Steel

Thickness

1 1/2"

1 5/8"

Range of tensile strength

28-32 tons

Description of riveting long seams

DR lap

Diameter of rivet holes

2 1/2"

Whether punched or

drilled

drilled

Pitch of rivets

2 1/2", 2 1/2", 2 1/2"

Lap of plating

4 1/4"

Per centage of strength of joint

Rivets

70.5

Working pressure of shell by

Plates

68.6

Diameter of stays

—

Diameter of

—

Diameter of

—

Diameter of

—

Thickness of shell crown plates

7/16"

Radius of do.

2'-9"

No. of stays to do.

—

Diameter of stays

—

Diameter of

—

Diameter of

—

Diameter of

—

Diameter of

—

Diameter of

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of Ogee ring

2 1/2"

Working pressure of Ogee ring by rules

135.9

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of furnace

—

Thickness of uptake

—

Thickness of uptake

—

Thickness of uptake

—

Thickness of uptake

—

Thickness of uptake

—

Thickness of uptake

—

Thickness of uptake

—

Thickness of uptake

—

Thickness of uptake

—

Thickness of tube plates

3/4"

Mean pitch of stay tubes in nest

10.5"

Pitch in outer vertical rows

8"

Pitch in outer vertical rows

8"

Pitch in outer vertical rows

8"

Pitch in outer vertical rows

8"

Pitch in outer vertical rows

8"

Pitch in outer vertical rows

8"

Pitch in outer vertical rows

8"

Diameter of tube holes

FRONT

stay

2 1/2"

BACK

stay

2 1/2"

Working pressure of tube plates by rules

F29.8145

Tubes: Material

Iron

Tubes: Material

Iron

Tubes: Material

Iron

Tubes: Material

Iron

Tubes: Material

Iron

External diameter

stay

2 1/2"

Thickness

stay

3/4"

No. of threads per inch

9

Pitch of tubes

4 x 3 1/2"

Pitch of tubes

4 x 3 1/2"

Pitch of tubes

4 x 3 1/2"

Pitch of tubes

4 x 3 1/2"

Pitch of tubes

4 x 3 1/2"

Pitch of tubes

4 x 3 1/2"

Working pressure by rules

125

Manhole compensation: Size of opening in shell plate

16 x 12"

Section of compensating

ring

6" x 4"

No. of rivets and diameter of rivet holes

36 @ 2 1/2"

Outer row pitch at ends

3.65"

Outer row pitch at ends

3.65"

Outer row pitch at ends

3.65"

Outer row pitch at ends

3.65"

Outer row pitch at ends

3.65"

Outer row pitch at ends

3.65"

FOR COCHRAN & CO., ANNAN, LTD.

The foregoing is a correct description.

E. Rex

GENERAL WORKS MANAGER

Dates of Survey while building

During progress of work in shops - 1933 Feb. 15 Mar. 3. 10. 31 Apr 7

During erection on board vessel - - - - -

Total No. of visits 5

Drawing No. 19125

Is the approved plan of boiler forwarded herewith yes

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 to the order of the North Eastern Marine Engineering Co. Ltd for the Constantine Steamship Co.

The boiler is being sent to Sunderland to be fitted in the vessel.

14/4/33.

Now Secured on board the vessel, & runned under steam & safety valves adjusted to working pressure

headings F 5/16 A 1/32

H. T. Fraser

Survey Fee ... £ 4 : 4 : -

Travelling Expenses (if any) £ : : -

When applied for 19

When received 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 18 APR 1933

Assigned TRANSMIT TO LONDON

TUE 18 JUL 1933

Engineer Surveyor to Lloyd's Register of Shipping.

603620-003624-0177

Lloyd's Register Foundation