

REPORT ON BOILERS.

Sld. No. 32378
Sld. No. 59220Received at London Office DEC 29 1937
GLASGOW

Date of writing Report

19

When handed in at Local Office

27.12.37

Port of

GLASGOW

No. in Survey held at
Reg. Book.

Date, First Survey

8th June 1937

Last Survey

21-12-1937

(Number of Visits

24)

Gross

5497

Tons

Net

2232

Master

Built at

Sunderland

By whom built

Wm. Doynne & Sons (N.640)

When built

1938

Boilers made at

Annan

By whom made

Bochman & Co Annan Ld.

When made

1937

Owners

Latin Ste. Nav. Co. Ld.

Port belonging to

Cardiff.

VERTICAL DONKEY BOILER

No. One

Description

Bochman Vertical Composite

Manufacturers of steel

Bochman Ld.

Made at

Annan

By whom made

Bochman & Co Annan Ld.

When made

1937

Where fixed

Upper boiler

Working pressure 120

tested by hydraulic pressure to

230

Date of test

21-12-37

No. of Certificate

20075

Fire grate area

Description of safety valves

2 Spring loaded

No. of safety valves

2

Area of each

7.06

Pressure to which they are adjusted

120

If fitted with easing gear

yes

If steam from main boilers can

enter the donkey boiler

Diameter of donkey boiler

8'-0"

Length

14'-0"

Material of shell plates

S

Thickness

3/32"

13/16"

Range of tensile strength

28-32 tons

Description of riveting long. seams

lap DR

Diameter of rivet holes

1 1/2"

Whether punched or

drilled

drilled

Pitch of rivets

3-12 1/2" 3-15 1/2" 3-13 1/2"

Lap of plating

5"

Per centage of strength of joint

Rivets

66.2

Working pressure of shell by

rules

127.5

Thickness of shell crown plates

1 1/2" 1 1/2"

Radius of do.

4'-0"

No. of stays to do.

none

Diameter of stays

Diameter of

furnace—Top

Bottom

7'-0"

Length of furnace

Thickness of furnace side plates

23"

Description of joint

seamless

Working

pressure

pressure of furnace by rules

144

Thickness of Ogee ring

1 1/2"

Working pressure of Ogee ring by rules

124.4

Thickness of furnace

crown plates

23"

Radius of do.

3'-6"

Stayed by

hemisphere

Diameter of uptake

31 1/2" x 25"

Thickness of uptake

plates

plates

2 1/2"

Thickness of tube plates

front 1 1/2" back 1 1/2"

Mean pitch of stay tubes in nest

9.48 8.76 7.8

Pitch in outer vertical rows

63 1/2" 5-25"

196

126

Diameter of tube holes

FRONT 2 3/8" 1 1/2" BACK 2 1/2" 1 1/2"

Working pressure of tube plates by rules

F122 8 1/2 160 161

Tubes: Material

steel

External diameter

stay 2 1/2" plain 2 1/2"

Thickness

stay 1 1/2" plain 1 1/2"

No. of threads per inch

9

Pitch of tubes

3-18 1/2" 3-13 1/2" 2 1/2" 2 1/2"

Working pressure by rules

215

Manhole compensation: Size of opening in shell plate

16 1/2"

Section of compensating

ring

2-4" x 3/32"

No. of rivets and diameter of rivet holes

36 @ 1 1/2"

Outer row pitch at ends

3-89"

The foregoing is a correct description,

FOR COCHRAN & Co., ANNAN, LTD.

W. A. Gray

Manufacturer.

Dates of Survey while building

During progress of work in shops

1937 June: 8.17.24 July: 8.18.30 Aug: 10.17.24.27 Sep: 10.17.24.27

During erection on board vessel

2.9.16 Oct: 1.4.22.28 Nov: 3.11.19.30 Dec: 10.16.21

Total No. of visits

24

Drawing No. E.33887

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.

It will be sent to Sunderland to be fitted in the vessel.

27/12/37

This boiler has been securely fixed on board the vessel & safety valves adjusted in accordance with Rule requirements.

For recommendation please see memo Rpt. W. A. Gray.

Survey Fee ... £ 4 : 4 : 0

When applied for

19

Travelling Expenses (if any) £

When received

19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 28 DEC 1937

Assigned TRANSMIT TO LONDON

FRI 20 MAY 1938

Sh. Davis
Engineer Surveyor to Lloyd's Register of Shipping.

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W983-0111