

REPORT ON BOILERS.

Sld. No. 32612

Sld. No. 60410

NOV 23 1938

Date of writing Report

19

When handed in at Local Office

19 11 38

Received at London Office

Port of

Glasgow

No. in Survey held at
Reg. Book.

Annan

Date, First Survey

30 : 6 : 38

Last Survey

9-11-1938

(Number of Visits

17

Tons

Gross 5449

Net 3247

Master

Built at

Sunderland

By whom built

Wm. Doxford & Sons Ltd (No. 649)

When built

1938

Boilers made at

Annan

By whom made

Buchanan & Co Annan Ltd (No. 14246)

When made

1938

Owners

Beant Line Ltd

Port belonging to

London

VERTICAL DONKEY BOILER—

No. one

Description

Buchanan composite

Manufacturers of steel

Schilles Ltd

Made at

By whom made

When made

Where fixed

necess.

Working pressure 120

tested by hydraulic pressure

230

Date of test

9-11-38

No. of Certificate

20297

Fire grate area

01

Description of safety valves

Enclosed spring

No. of safety valves

2

Area of each

7.064

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

17'-9"

Material of shell plates

steel

Thickness

2 1/2" 13/16"

Range of tensile strength

28-32

Description of riveting long. seams

WR Lap

Diameter of rivet holes

1 1/2"

Whether punched or

drilled

Pitch of rivets

3-15/16" 3-13/16" 3-7/8"

Lap of plating

5"

Per centage of strength of joint

Rivets 66.27 & 53.9

Working pressure of shell by

rules

127

Thickness of shell crown plates

19/32" & 1 1/2"

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

23/32"

Description of joint

Seamless

Working

pressure of furnace by rules

144

Thickness of Ogee ring

1 1/2"

Working pressure of Ogee ring by rules

124

Thickness of furnace

crown plates

23/32"

Radius of do.

3'-6"

Stayed by

hemisphere

Diameter of uptake

21 1/2" x 25"

Thickness of uptake

plates

9/16"

Thickness of tube plates

front 2 3/16" 1 11/16"

back 1 1/2"

Mean pitch of stay tubes in nest

9.47.8.72.7.8"

Pitch in outer vertical rows

6-37/4" & 5-1/4"

Diameter of tube holes

FRONT

stay 2 3/16" 1 11/16"

plain 2 1/4" 1 13/16"

BACK

stay 2 1/2" 1 1/2"

plain 2 1/4" 1 13/16"

Working pressure of tube plates by rules

F 122 B 196

Tubes: Material

steel

External diameter

stay 2" 1 1/2"

plain 2" 1 1/2"

Thickness

stay 3/32" 1/16"

plain 10 LSC

No. of threads per inch

9

Pitch of tube

3-167 x 3-13. 2 5/8" x 2 1/16"

Working pressure by rules

2/5

Manhole compensation; Size of opening in shell plate

16" x 12"

Section of compensating

ring

2-4 dia 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 BUCHANAN & CO. ANNAN, LTD.

T. K. S. S.

Manufacturer.

Dates of Survey while building

During progress of work in shops—

1938 June: 30 July: 7-13 Aug: 4-11-19-25 Sep: 1-8

Drawing No.

E. 33887

During erection on board vessel—

16-30 Oct: 4-13-20-27 Nov: 4-9

Total No. of visits

17

Is the approved plan of boiler forwarded herewith

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.

The boiler will be sent to Sunderland to be fitted in the vessel.

This boiler has been securely fixed on board the vessel
 steamed under steam & safety valves adjusted in accordance with
 Rule Requirements.

For recommendation please see Mchng. Rpt

T. K. S. S.

Survey Fee ... £ 4 : 4 : }

When applied for

19

Travelling Expenses (if any) £ : : }

When received

19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 22 NOV 1938

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

TUE 25 APR 1938

Lloyd's Register

Foundation

W173-0058