

REPORT ON BOILERS.

No. 48792

23 JAN 1929

Received at London Office

Date of writing Report

19

When handed in at Local Office

19. 1. 1929

Port of Glasgow

No. in Reg. Book.

Survey held at

Annan

Date, First Survey

4. 11. 28

Last Survey

15. Jan. 1929

(Number of Visits

8

Gross

Tons

Net

Master

Built at

By whom built

When built

Boilers made at

Annan

By whom made

Messrs Cochran & Co. Annan Ltd

When made

1929

Owners

Port belonging to

VERTICAL DONKEY BOILER—

No. One

Description

Vertical

Manufacturers of steel

D. Colville & Sons

Made at

Annan

By whom made

Cochran & Co. Annan

When made

1929

Where fixed

Working pressure 125 lb

tested by hydraulic pressure to 238 lb

Date of test

15. 1. 29

No. of Certificate

18165

Fire grate area

18. 7

Description of safety valves

Enclosed Spring

No. of safety valves

2

Area of each

3. 4 sq in

Pressure to which they are adjusted

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

No

Diameter of donkey boiler

6'-0"

Length

15'-9"

Material of shell plates

Steel

Thickness

17/32"

5/8"

17/32"

Range of tensile strength

28. 32 to

Description of riveting long. seams

D. R. Lap

Diameter of rivet holes

70. 0

Whether punched or

drilled

drilled

Pitch of rivets

2. 766", 2. 843", 2. 844"

Gap of plating

4 1/2"

Per centage of strength of joint

Rivets

70. 0

Working pressure of shell by

rules

134. 8 lb.

Thickness of shell crown plates

29/32"

Radius of do.

3'-0"

No. of stays to do.

✓

Diameter of stays

✓

Diameter of

furnace—Top

✓

Bottom

5'-0"

Length of furnace

3'-6 3/16"

Thickness of furnace side plates

✓

Description of joint

✓

Working

pressure of furnace by rules

146. 9 lb.

Thickness of Ogee ring

29/32"

Working pressure of Ogee ring by rules

126. 8 lb.

Thickness of furnace

crown plates

17/32"

Radius of do.

2'-6"

Stayed by

Hemisphere

Diameter of uptake

15" x 18"

Thickness of uptake

plates

9/16"

Thickness of tube plates

front 1 1/16"

back 27/32"

Mean pitch of stay tubes in nest

10. 97"

Pitch in outer vertical rows

7 1/2"

Diameter of tube holes

FRONT

stay 2 1/16"

BACK

stay 2 1/2"

Working pressure of tube plates by rules

B. 135. 9 lb.

Tubes: Material

Wrought Iron

External diameter

stay 2 1/2"

plain 2 9/16"

stay 1 1/32"

plain 1 1/32"

No. of threads per inch

9

Pitch of tubes

39/16" x 3 3/4"

Working pressure by rules

125 lb.

Manhole compensation: Size of opening in shell plate

16" x 12"

Section of compensating

ring

6" x 27/32"

No. of rivets and diameter of rivet holes

36 1/4"

29/32"

Outer row pitch at ends

3 5/8"

The foregoing is a correct description.

Birkenhead

Manufacturer.

W. H. Birkenhead

W. H.

Dates

During progress of work in shops

1928 Nov. 6. 16. 27. 30 Dec. 5. 11. 21 (1929) Jan. 15

Drawing No.

E 24727

of Survey

During erection on board vessel

while building

Total No. of visits

8

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

The boiler is to the order Messrs Cammell Laird & Co. Ltd Birkenhead and intended for vessel No 946

Survey Fee

£ 4. 4. 0

When applied for

19

Travelling Expenses (if any)

£

When received

19

Committee's Minute

GLASGOW 22 JAN 1929

Assigned

TRANSMIT TO LONDON

A. Campbell
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

002762 - 002769 - 0155