

RECEIVED

MAY 1951

D.O.

REPORT ON BOILERS.

Bel. 15283

No. 11/31

1 JUN 1951

1431 Port

Received at London Office

Port of

Glasgow

Date, First Survey

14 February 1951

Last Survey

15 May 1951

No. in Survey held at

Annan

Reg. Book

S.S. "RHODESIA CASTLE"

built at

Belfast

By whom built Messrs. Harland & Wolff Ltd.,

Yard No. 1431

When built

10/51

Boilers made at

Annan

By whom made Cochran & Co. Annan, Id.

Boiler No. 18967

When made 1951

Owners UNION CASTLE MAIL S.S. CO. LTD.

Port belonging to

LONDON

VERTICAL DONKEY BOILER

No. one

Description multitubular

Manufacturers of steel

Colvilles Id.,

Made at

Annan

By whom made Cochran & Co. Annan, Id.

When made

1951

Where fixed

Working pressure 100 lb.

Tested by hydraulic pressure to

200 lb

Date of test

15.5.51

No. of Certificate

25440

Fire grate area

37

Description of safety valves

enclosed spring

No. of safety valves

2

Area of each

7.07

Pressure to which they are adjusted

-

If fitted with easing gear

yes

If steam from main boilers can

Enter the donkey boiler

-

Diameter of donkey boiler

8'-0"

Length

18'-9"

Material of shell plates

steel

Thickness

11/16"

9/16"

Range of tensile strength

28-32 T

Description of riveting long. seams

DR. Lap

Diameter of rivet holes

29/32"

Whether punched or

Rivets

65.51

Drilled

Pitch of rivets

2.875"

2.886"

Lap of plating

4 1/2"

Per centage of strength of joint

Plates

66.95

Working pressure of shell by

105.4 lb.

Thickness of shell crown plates

1" & 1/2"

Radius of do.

4'-0"

No. of stays to do.

none

Diameter of stays

-

Diameter of

seamless

Working

Furnace

Top

Bottom

7'-0"

Length of furnace

-

Thickness of furnace side plates

5/8"

Description of joint seamless

Pressure of furnace by rules

124.5 lb

Thickness of Ogee ring

1"

Working pressure of Ogee ring by rules

116.8 lb

Thickness of furnace

plates

5/8"

Radius of do.

3'-6"

Stayed by

hemisphere

Diameter of uptake

20" x 23 1/2"

Thickness of uptake

9/16"

Thickness of tube plates

front

7/8"

back

13/16"

Mean pitch of stay tubes in nest

as approved

Pitch in outer vertical rows

9"

F. 106.4 lb.

B. 119.3

Tubes: Material

steel

lb.

diameter of tube holes

FRONT

2.11/16"

BACK

2.9/16"

plain

11/32"

Working pressure of tube plates by rules

2 1/2"

No. of threads per inch

9

Pitch of Tubes

3.9/16" x 4.1/2"

Section of compensating

21" x 17"

Manhole compensation; Size of opening in shell plate

4.105"

external diameter

2 1/2"

Thickness

plain

10 LSG

No. of rivets and diameter of rivet holes

40 @ 29/32"

outer row pitch at ends

4.105"

Is the approved plan of boiler forwarded herewith

Yes

The foregoing is a correct description,

Signature

Manufacturer.

Drawing No.

36039

During progress of

work in shops

1951 Feb. 1-8-16-22 Mar. 2-8-16-22-28 Apr. 5-12-19-26 May 10-15

Survey

During erection on

board vessel

-

-

Total No. of visits

15.

Is the approved plan of boiler forwarded herewith

Yes

GENERAL REMARKS

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

This boiler has been constructed under Special Survey in accordance with the Society's

Rules and the approved plans.

Material and workmanship are good.

Boiler installed on board in a satisfactory manner, examined

under working conditions and Safety Valves adjusted under

steam to 180 lbs/sq. in.

Signature

Survey Fee

£ 11 : 8 : 9

When applied for

19

Travelling Expenses (if any)

£ : : 19

When received

19

MONTHLY ACCOUNT

Signature

Engineer Surveyor to Lloyd's Register of Shipping.

GLASGOW

30 MAY 1951

TUES. 4 DEC. 1951

Signature

Signature

Signature

Signature