

## REPORT ON BOILERS.

No. 60188

SEP 15 1938

Date of writing Report

19

When handed in at Local Office

12. 9. 1938

Received at London Office

Port of

Glasgow

No. in Survey held at  
Reg. Book.

Annan

Date, First Survey

2. 6. 38

Last Survey

1-9-1938

on the

Single Sc. M.V. Rowallan Castle

(Number of Visits)

12

Tons

Gross 7797.92

Net 4727.64

Master

Built at

Belfast

By whom built

Harland &amp; Wolff Ltd (N° 1013)

When built

1938

Boilers made at

Annan

By whom made

Buchan &amp; Co Annan Ltd

N° 14195

When made

1938

Owners

Union Castle Mail Steamship Co Ltd

Port belonging to

London

## VERTICAL DONKEY BOILER—

No. one

Description Buchan

Manufacturers of steel

Steel Co of Scotland Ltd

Made at

By whom made

When made

Where fixed

Working pressure 100

tested by hydraulic pressure to

200

Date of test

1-9-38

No. of Certificate

20258

Fire grate area

7.50

Description of safety valves

Enclosed spring

No. of safety valves

2

Area of each

1.762

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

3'-9"

Length

10'-0"

Material of shell plates

Steel

Thickness

3/8" - 13/32"

Range of tensile strength

28-32 tons

Description of riveting long. seams

DR Lap

Diameter of rivet holes

23/32"

Whether punched or

drilled

drilled

Pitch of rivets

2.23"

2.234"

2.236"

Lap of plating

3 3/4"

Per centage of strength of joint

Rivets 75.3

Working pressure of shell by

rules

145

Thickness of shell crown plates

1/2"

Radius of do.

3'-2"

No. of stays to do.

none

Diameter of stays

Diameter of

furnace—Top

3'-1"

Bottom

3'-3 1/8"

Length of furnace

18"

Thickness of furnace side plates

1/2"

Description of joint

electric weld

pressure of furnace by rules

179.2

Thickness of Ogee ring

-

Working pressure of

furnace

by rules

119

Thickness of furnace

crown plates

1/2"

Radius of do.

23"

plates

1/2"

Thickness of tube plates

from 1/16"

back 17/32"

Mean pitch of stay tubes in nest

8'-8 1/4"

Pitch in outer vertical rows

7 1/8"

Diameter of tube holes

FRONT

stay 2 1/16"

plain 2 9/16"

BACK

stay 2 1/2"

plain 2 1/2"

Working pressure of tube plates by rules

F111.6

B124

Tubes: Material

Steel

External diameter

stay 2 1/2"

plain 2 1/2"

Thickness

stay 1/32"

plain 10 W 9

No. of threads per inch

9

Pitch of tubes

3 9/16" x 3 1/2"

Working pressure by rules

17.5

Manhole compensation: Size of opening in shell plate

10" x 12"

Section of compensating

ring

5 1/4" x 3 1/4"

No. of rivets and diameter of rivet holes

32 @ 23/32"

Outer row pitch at ends

4 3/8"

The foregoing is a correct description.

T. Buchan Manufacturer.

Dates

During progress of

work in shops

1938 June: 2. 9. 15. 20. 30

July: 7. 13

Aug: 4. 11. 19. 25

Drawing No.

23371

of Survey

while

building

During erection on

board vessel

Sep: 1

building

Total No. of visits

12

Is the approved plan of boiler forwarded herewith

yes

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

The materials and workmanship are good

The boiler has been constructed under special survey —

To the order of Messrs Harland &amp; Wolff Ltd Belfast

This boiler has been installed &amp; fastened on a seat on the Tank top at the fore end of the

engine room, the safety valves have been adjusted under steam, accumulation test was

satisfactory In my opinion the boiler is eligible for use on a vessel classed with

the Society

Charles H. Hunter

Belfast. 15/3/39

Survey Fee ... £ 4 : 4 :

When applied for 19

Travelling Expenses (if any) £ :

When received 19

MONTHLY ACCOUNT

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 14 SEP 1938

Assigned TRANSMIT TO LONDON

TUE. 28 MAR 1939

Lloyd's Register  
Foundation