

# REPORT ON BOILERS.

Sld. No. 29703

Sls. No. 47442

29 DEC 1927 19 APR 1928

Date of writing Report

19

When handed in at Local Office

26.12.27

19.27

Port of

Glasgow.

No. in Survey held at

Annan.

Date, First Survey

4.11.27

Last Survey

14.4.28

Reg. Book

4102

on the

BOILER No 10734 M.V. "GLENMOOR"

(Number of Visits

9

Tons

Gross 4393

Net 2849

Master

Built at

Sunderland

By whom built

William Doulton &amp; Co. Ltd.

When built

1928

Boilers made at

Annan

By whom made

Messrs Cochran &amp; Co. Annan Ltd

When made

1927

Owners

The Iron Line Ltd.

Port belonging to

London.

## VERTICAL DONKEY BOILER

No.

ONE

Description

VERTICAL

Manufacturers of steel

D. G. &amp; Sons, Ltd.

Made at

Annan

By whom made

Cochran &amp; Co. Annan Ltd

When made

1927

Where fixed

Recess in engine room.

Working pressure

120 lbs

tested by hydraulic pressure to

230 lbs

Date of test

23/12/27

No. of Certificate

17716

Fire grate area

225 sq ft

Description of safety valves

Spring loaded

No. of safety valves

Two

Area of each

4.9 sq ft

Pressure to which they are adjusted

125

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

Diameter of donkey boiler

6'-6"

Length

16'-3"

Material of shell plates

Steel

Thickness

3/32", 3/32", 3/32"

Range of tensile strength

28/32 to 30/32

Description of riveting long. seams

B.R. Lap

Diameter of rivet holes

29/32"

Whether punched or

drilled

Drilled

Pitch of rivets

2.766", 2.893", 2.864"

Lap of plating

4 1/2"

Per centage of strength of joint

Rivets

71.5

Working pressure of shell by

rules

124.5

Thickness of shell crown plates

3/32", 3/32"

Radius of do.

3'-3"

No. of stays to do.

Diameter of stays

Diameter of

furnace—Top

Hemispherical

Bottom

5'-6"

Length of furnace

3'-7 1/2"

Thickness of furnace side plates

9/16"

Description of joint

Seamless

Working

pressure of furnace by rules

141 lbs.

Thickness of Ogee ring

15/16"

Working pressure of Ogee ring by rules

125.8 lbs.

Thickness of furnace

crown plates

9/16"

Radius of do.

2'-9"

Stayed by

Hemispherical

Diameter of uptake

15" x 23"

Thickness of uptake

plates

9/16"

Thickness of tube plates

front 3/32"

back 3/32"

Mean pitch of stay tubes in nest

11 1/8"

Pitch in outer vertical rows

8"

Diameter of tube holes

FRONT

stay 2 1/8"

plain 2 3/8"

BACK

stay 2 1/8"

plain 2 3/8"

Working pressure of tube plates by rules

FRONT 123 lbs

BACK 133 lbs

Tubes: Material

External diameter

stay 2 1/8"

plain 2 3/8"

Thickness

stay 1 1/32"

plain 1 1/32"

No. of threads per inch

9

Pitch of tubes

3 3/8" x 4"

Working pressure by rules

125 lbs.

Manhole compensation: Size of opening in shell plate

16 x 12"

Section of compensating

ring

12 x 3 3/8"

No. of rivets and diameter of rivet holes

36 x 3/32"

Outer row pitch at ends

4"

The foregoing is a correct description,

For COCHRAN &amp; CO., ANNAN, LIMITED

Manufacturer.

J.H. Woodham

Drawing No.

13875.

Dates of Survey

During progress of

work in shops

1927 Nov. 4, 11, 21, 25 Dec 2, 9, 16, 20, 23

while building

During erection on board vessel

Total No. of visits

9

Is the approved plan of boiler forwarded herewith

Yes

## GENERAL REMARKS

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

This boiler has been built under

Survey in accordance with the Rules and approved plan.

Materials &amp; workmanship Good

The boiler is to the order of Messrs Wm. Doulton &amp; Co. Ltd of Sunderland &amp; intended for

their ship No 591 for classification.

This boiler has been satisfactorily fitted on board &amp; the safety

valves adjusted under steam.

For notation see machinery report.

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 28 DEC 1927

Assigned

TRANSMIT TO LONDON

FRI. 27 APR 1928

W1129-0238

Lloyd's Register Foundation