

## REPORT ON BOILERS.

No. 45696

of writing Report

Received at London Office

26 MAY 1926

To. in Survey held at

Annan

Date, First Survey

Port of

Last Survey

21<sup>st</sup> May 1926.

on the COCHRAN BOILER No 10017

(Number of Visits)

Gross  
Tons  
Net

ter

Built at

By whom built

When built

er's made at

Annan

By whom made

Cochran & Co Annan L<sup>d</sup>.

When made 1926.

ers

Port belonging to

## VERTICAL DONKEY BOILER—

No. One

Description

Cochran Type

Manufacturers of steel D. Colville &amp; Son

at

By whom made

Cochran &amp; Co

When made 1926

Where fixed

Engine Room

Working pressure 100 lbs.

ed by hydraulic pressure to

Date of test

21/5/26

No. of Certificate

7137

Fire grate area

18.7 sq

Description of safety valves

Spring loaded.

of safety valves

Five

Area of each

3.142

Pressure to which they are adjusted

100 lbs

If fitted with easing gear

Yes

If steam from main boilers can

er the donkey boiler

Dia. of donkey boiler

6'0"

Length

15'9"

Material of shell plates

Steel

Thickness

7/16" &amp; 7/32"

Range of tensile

2625

Length

Descrip. of riveting long. seams

D.R. Lap

Dia. of rivet holes

25/32"

Whether punched or drilled

drilled

Pitch of rivets

2.625"

of plating

3 7/8"

Per centage of strength of joint

Rivets 67.1

Plates 70.25

Working pressure of shell by rules

108 lbs.

Thickness of shell crown plates

3/32" &amp; 1/16"

Pitch of rivets

2.625"

Diameter of do.

3'0"

No. of Stays to do.

None

Dia. of stays

r

Diameter of furnace Top

Hemisphere

Bottom

5'0"

Length of furnace

2'7 1/2"

Thickness of furnace plates

1/2"

Description of joint

Seamless

Working pressure of furnace by rules

137 lbs.

Thickness of furnace crown

10 1/2 lbs.

Thickness of furnace crown

10 1/2 lbs.

Radius of do.

2'6"

Stayed by

Radials

Diameter of uptake

5" x 1 1/2"

Thickness of uptake plates

9/16"

Thickness of uptake plates

9/16"

Thickness of water tubes

Front 7/8"

Back 1/16"

The foregoing is a correct description,

For COCHRAN &amp; CO. ANNAN, LIMITED

Manufacturer.

H.E. WOODHAM

Dates During progress of work in shops - 1926 April 23-30 May 21

Survey while building During erection on board vessel - -

Total No. of visits

4

Drawing No. 15051.

Copy of

Is the approved plan of boiler forwarded herewith

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

This boiler has been built under Special Survey in accordance with the rules of this Society. The workmanship and materials are good.

It is to the order of Messrs. Vickers, Peters L<sup>d</sup>. for the Bluff building in Dublin.

DUBLIN APRIL 1927. The boiler has been efficiently installed & fastened on the tank top in fore end of engine-room in the M.V. "SOUTHLAND". The safety valves have been adjusted under steam to the working pressure 100 lbs. oil fuel burning system has been fitted and the suckers & dischargers tested in accordance with the rules. The installation has been tried under working conditions with satisfactory results. In my opinion the vessel is now eligible for the notation of L.M.C.

Chas E Caffrey

See plans attached of oil burning system on donkey boiler.

Survey Fee ... £ 4 : 4 :

Travelling Expenses (if any) £ : :

When applied for, 19

When received, 19

Committee's Minute

GLASGOW 25 MAY 1926

Assigned

TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

WED. 8 JUN 1927

See Sub. H. rpt. to 4519

W1319-0318