

Rpt. 5e.

REPORT ON BOILERS.

No. 50195

12 MAR 1930

Date of writing Report

19

When handed in at Local Office

6/3/30

Port of

GLASGOW

No. in Survey held at
Reg. Book.

Annan

Date, First Survey

10

30

Last Survey

25th February 1930

(Number of Visits

5)

Gross

Tons

Net

on the

Boiler No. 11687

M.V. EVINA

Master

Built at

By whom built

When built

Boiler made at

Annan

By whom made

Messrs Cochran & Co. Annan L^{td} Scotland

When made

1930

Owners

Port belonging to

VERTICAL DONKEY BOILER—

No. One

Description

Vertical

Manufacturers of steel

D. Colville & Sons L^{td}

Made at

Annan

By whom made

Cochran & Co. Annan L^{td}

When made

1930

Where fixed

Working pressure

180

tested by hydraulic pressure to

320

Date of test

25-2-30

No. of Certificate

18618

Fire grate area

16.75

Description of safety valves

Enclosed spring

No. of safety valves

2

Area of each

3.14

Pressure to which they are adjusted

180 lb/sq in

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

No

Diameter of donkey boiler

5'-6"

Length

14'-0"

Material of shell plates

Steel

Thickness

1/16", 1/8", 1/4", 1/2"

Range of tensile strength

28-32

Description of riveting long. seams

D.R. Lap

Diameter of rivet holes

1/32"

Whether punched or

Rivets

63-8

drilled

drilled

Pitch of rivets

2-9 7/8", 3-10 1/8", 3-12 1/8"

Lap of plating

5"

Per centage of strength of joint

Plates

65.4

Working pressure of shell by

rules

rules

186.8

Thickness of shell crown plates

29/32"

Radius of do.

2'-9"

No. of stays to do.

Diameter of stays

Diameter of

furnace—Top

Bottom

pressure of furnace by rules

201.2

Thickness of Ogee ring

29/32"

Working pressure of Ogee ring by rules

184.9

Thickness of furnace

crown plates

1/16"

Radius of do.

2'-4 1/2"

plates

9/16"

Thickness of tube plates

front 1/16"

back 7/8"

Mean pitch of stay tubes in nest

8 1/16"

Pitch in outer vertical rows

7/8"

Diameter of tube holes

FRONT

stay 2 3/16"

plain 2 1/16"

BACK

stay 2"

plain 2"

Working pressure of tube plates by rules

F 187.6

B 199

Tubes: Material

Woot Iron

External diameter

stay 2"

plain 2"

Thickness

stay 1/32"

plain 10 L 55

No. of threads per inch

9

Pitch of tubes

3" X 39/16"

Working pressure by rules

215

Manhole compensation; Size of opening in shell plate

16" X 12"

Section of compensating

ring

6 1/2" X 1 3/32"

No. of rivets and diameter of rivet holes

36 off 1/32"

Outer row pitch at ends

3 5/8"

The foregoing is a correct description,
COCHRAN & CO., ANNAN, LTD.

Walter Gattie

Manufacturer

Works Manager

Drawing No.

17671.

Dates
of Survey
while
building

During progress of

work in shops—

During erection on

board vessel—

Total No. of visits

1930 Jan 10, 24, 31 Feb 14, 25

5

Is the approved plan of boiler forwarded herewith

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.

This boiler has been built to the order of Sir W. & A. Armstrong Whitworth
& Co. (Engineers) L^{td} Newcastle-on-Tyne, and is intended for N^o M.E. 90.This boiler has been securely fastened on board the Motor Vessel "EVINA" Messrs
Armstrong Whitworth's Vessel 1060 and its safety valves adjusted under steam to
the working pressure.

L. Desket

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

11 MAR 1930

Assigned

TRANSMIT TO LONDON

TUE. 8 JUN 1930

See Part I. Exp. 8877

002830-002837-0104