

# REPORT ON BOILERS.

No. 47491

Date of writing Report

19

When handed in at Local Office

16. 1.

1928

Port of

Received at London Office

18 JAN 1928

No. in Survey held at

Arman.

Reg. Book.

on the

BOILER No 10446

Date, First Survey

21-10-27

Last Survey

12-1-1928

(Number of Visits 13)

Gross 95.01

Net 60.23

Master

Built at

Glasgow

By whom built

Fairfield & Co. Ltd

When built

1928

Boiler made at

Arman

By whom made

Messrs. Cochran & Co. Arman Ltd

When made

1928

Owners

British & Argentine S.N. Co

Port belonging to

London

## VERTICAL DONKEY BOILER

No. ONE

Description VERTICAL

Manufacturers of steel D. Colville & Sons Ltd.

Made at

Arman

By whom made

Cochran & Co Arman Ltd

When made

1928

Where fixed

Working pressure 125 lbs

tested by hydraulic pressure to

238 lbs

Date of test

12/1/28

No. of Certificate

17738

Fire grate area

37 sq ft

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

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

3/32", 25/32", 2 1/2"

Range of tensile strength

28/32 Tens

Description of riveting long. seams

B.R. Lap

Diameter of rivet holes

1 1/32"

Whether punched or

drilled

Drilled

Pitch of rivets

3", 3.169", 3.096"

Lap of plating

5"

Per centage of strength of joint

Rivets 67.5

Working pressure of shell by

rules

125.3 lbs

Thickness of shell crown plates

19/32", 1 1/8"

Radius of do.

4'-0"

No. of stays to do.

✓

Diameter of stays

✓

Diameter of

furnace—Top

Hemispherical

Bottom

Length of furnace

4'-4 1/2"

Thickness of furnace side plates

23/32"

Description of joint

Seamless

Working

pressure of furnace by rules

143.8 lbs

Thickness of Ogee ring

1 1/8"

Working pressure of Ogee ring by rules

132 lbs

Thickness of furnace

crown plates

23/32"

Radius of do.

3'-6"

Stayed by

Hemispherical

Diameter of uptake

21 1/2" x 25"

Thickness of uptake

plates

9 1/16"

Thickness of tube plates

front 1 1/32"

Mean pitch of stay tubes in nest

10.88"

Pitch in outer vertical rows

9"

Diameter of tube holes FRONT

stay 2 1/8"

plain 2 9/16"

BACK

stay 2 1/8"

plain 2 9/16"

Working pressure of tube plates by rules

front 126.5 lbs

BACK 134.5 lbs

Tubes: Material

Woot 2002

External diameter

stay 2 1/2"

plain 2 5/8"

Thickness

stay 1 1/32"

plain 1 1/16"

No. of threads per inch

9

Pitch of tubes

3 9/16" x 4 1/2"

Working pressure by rules

125 lbs

Manhole compensation; Size of opening in shell plate

16" x 12"

Section of compensating

ring

12" x 3 1/2"

No. of rivets and diameter of rivet holes

36 @ 1 1/32"

Outer row pitch at ends

3 7/8"

The foregoing is a correct description,

For COCHRAN & CO., ARMAN, LIMITED

Walter Deakin

Manufacturer.

Works Manager

Drawing No.

15544

Dates

During progress of work in shops

1927 Oct 21-28 Nov 11-21-25 Dec 2-9-16-20-23

of Survey

During erection on board vessel

1928 Jan 6-12

while building

Total No. of visits

13

Is the approved plan of boiler forwarded herewith

Yes.

## GENERAL REMARKS

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

Survey in accordance with the Rules and approved plan.

Materials and workmanship Good.

This boiler is to the order of Messrs The Fairfield Shipbuilding Co. and intended for their ship No 629. For classification

Survey Fee

£ 4: 4: 0

When applied for

19

Travelling Expenses (if any) £

When received

19

MONTHLY ACCOUNT

Glen. T. Thorne

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 17 JAN 1928

TRANSMIT TO LONDON

Assigned

See G.S. Rpt. No. 47850.

GLASGOW 24 APR 1928

Lloyd's Register Foundation

W 1173-0220