

REPORT ON BOILERS.

Sld. No. 33135

Sld. No. 63472

Received at London Office

FEB 19 1941

Date of writing Report

When handed in at Local Office

15. 2. 1941

Port of

Glasgow

Sld. 25. 6. 41

No. in
Reg. Book.

Survey held at

Annan

Date, First Survey

11. 9. 40

Last Survey

6. 2.

1941

(Number of Visits

14)

Gross 7253

Net 5022

Built at

Sunderland

By whom built

J. W. Lee & Sons Ltd.

Yard No.

642

When built

1941

Boilers made at

Annan

By whom made

Cochran & Co (Annan) Ltd

Boiler No. 14878

When made 1941

Owners

Messrs Hantlepool Stevedoring Co Ltd

Port belonging to

Messrs Hantlepool

VERTICAL DONKEY BOILER—

No. 1

Description

Cochran

Manufacturers of steel

Cochran & Co

Made at

Annan

By whom made

Cochran & Co (Annan) Ltd

When made

1941

Where fixed

Upper br. recess

Working pressure 120

tested by hydraulic pressure to

230

Date of test

6-2-41

No. of Certificate

20702

Fire grate area

10 sq ft

Description of safety valves

Enclaved spring

No. of safety valves

2

Area of each

7.06

Pressure to which they are adjusted

120

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

Diameter of donkey boiler

8'-0"

Length

17'-9"

Material of shell plates

Steel

Thickness

13/16"

21/32"

Range of tensile strength

28-32

Description of riveting long. seams

DR. Lap

Diameter of rivet holes

1 1/32"

Whether punched or

drilled

drilled

Pitch of rivets

3.15, 3.13, 3 1/8"

Lap of plating

5"

Per centage of strength of joint

Rivets 46.2, 53.9

Plates 66.8, 67.3

Working pressure of shell by

rules

127

Thickness of shell crown plates

13/32"

Radius of do.

4'-0"

No. of stays to do.

-

Diameter of stays

-

Diameter of

furnace—Top

-

Bottom

7'-0"

Length of furnace

-

Thickness of furnace side plates

23/32"

Description of joint

seamless

Working

pressure of furnace by rules

144

Thickness of Ogee ring

1 1/32"

Working pressure of Ogee ring by rules

124

Thickness of furnace

crown plates

23/32"

Radius of do.

3'-6"

plates

9/16"

Thickness of tube plates

front 1 1/8"

back 1 1/8"

Mean pitch of stay tubes in nest

8-7/8, 8-3/8, 9-4/8"

Pitch in outer vertical rows

5 1/4"

6.37"

F. 122, 126

Diameter of tube holes

FRONT

stay 2 3/4"

plain 2 1/4"

BACK

stay 2 1/2"

plain 2 1/2"

Working pressure of tube plates by rules

B. 196

141

Tubes: Material

Steel

External diameter

stay 2 1/2"

plain 2 1/2"

Thickness

stay 1 1/8"

plain 1 1/8"

No. of threads per inch

9

Pitch of tubes

2 5/8" x 2 1/2"

3-13" x 3-187"

Working pressure by rules

215

Manhole compensation; Size of opening in shell plate

21 x 17

Section of compensating

ring

9 1/2" x 1 1/2"

No. of rivets and diameter of rivet holes

40 @ 1 1/2"

Outer row pitch at ends

4.03"

The foregoing is a correct description,

E. A. Rex.

Manufacturer

FOR COCHRAN & CO., ANNAN, LTD.

Dates
of Survey
while
buildingDuring progress of
work in shops—

1940

Sep.: 11. 19

Oct.: 17. 30

Nov.: 14. 21. 28

Dec.: 5. 12. 19. 24

Drawing No.

25112

During erection on
board vessel—

1941

Jan.: 9. 17

Feb.: 6

Total No. of visits

14

Is the approved plan of boiler forwarded herewith

GENERAL REMARKS

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

This boiler has been constructed

under special survey in accordance with the Society's Rules and the approved plan

The material and workmanship are good.

The boiler is intended for Messrs Wm Doxford & Sons. Contract No. 672.

This boiler has been securely fitted on board the vessel
Safety valves adjusted to working pressure

(In recommendation please see Memo Rpt.)

W. H. Haser

Survey Fee ... £ 4 : 4 : }

Travelling Expenses (if any) £ : : }

When applied for

MONTHLY ACCOUNT

When received

19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 18 FEB 1941

Assigned

TRANSMIT TO LONDON

FRI. 11

JUL 1941

See Sld. 33135

Lloyd's Register

Foundation

004194-004199-0406