

Rpt. 5e

8 NOV 1943

IN D.O.

REPORT ON BOILERS.

No. 67269

Date of writing Report

19

When handed in at Local Office

24 6 43

Received at London Office

1 JUL 1943

No. in Survey held at

Annan

Date, First Survey

Port of

Glasgow

Last Survey

16-6-

1943

Reg. Book.

on the Steel Single Screw Lighter "VIC 39"

(Number of Visits 8)

Gross 96

Net 41

Built at

Annan

By whom built

Brown & Co. Ltd.

Yard No.

11

When built

1943

Boilers made at

Annan

By whom made

Cochran & Co. Annan Ltd.

Boiler No. X.T. 11150

When made

1943

Owners

Ministry of War Transport

Port belonging to

Managers by Messrs. J. & J. Shields of Hull

VERTICAL DONKEY BOILER

No. one

Description

horizontal

Manufacturers of steel

Bohills Ltd.

Made at

Annan

By whom made

Cochran & Co. Annan Ltd.

When made

1943

Where fixed

in Boiler Room

Working pressure 120

tested by hydraulic pressure to 230

Date of test

16-6-43

No. of Certificate

21447

Fire grate area

22.50

Description of safety valves

ordinary

No. of safety valves 2

Area of each

3.140

Pressure to which they are adjusted

120 lb

If fitted with easing gear

yes

If steam from main boilers can

enter the donkey boiler

-

Diameter of donkey boiler

6'-3"

Length

14'-6"

Material of shell plates

S

Thickness

1/2"

Range of tensile strength

28-32 tons

Description of riveting long. seams

19 R. lap

Diameter of rivet holes

27/32"

Whether punched or

drilled

drilled

Pitch of rivets

2.65"

2.67"

Lap of plating

4 1/4"

Per centage of strength of joint

68.7

Working pressure of shell by

rules

68.4

Thickness of shell crown plates

25/32"

Radius of do.

6'-2"

No. of stays to do.

-

Diameter of stays

-

Diameter of

plates

5'-12"

Bottom

5'-5"

Length of furnace

6'-8 1/2"

Thickness of furnace side plates

5/8"

Description of joint

Electric weld

Working

pressure of furnace by rules

131

Thickness of Ogee ring

-

Working pressure of Ogee ring by rules

Thickness of Ogee ring

13/16"

Radius of do.

5'-0"

Stayed by

uptake

Diameter of uptake

1'-9"

Thickness of uptake

5/8"

Thickness of tube plates

front

Mean pitch of stay tubes in nest

back

Pitch in outer vertical rows

-

Diameter of tube holes

FRONT

stay

BACK

stay

plain

Working pressure of tube plates by rules

12 1/2"

Thickness of tube plates

12 1/2"

Thickness

7/16"

No. of threads per inch

welded in

Pitch of tubes

20 1/2"

Working pressure by rules

120

Manhole compensation; Size of opening in shell plate

16 x 20 1/2"

Section of compensating

7' x 1 1/2'

No. of rivets and diameter of rivet holes

48 @ 27/32"

Outer row pitch at ends

3.34"

The foregoing is a correct description,

for COCHRAN & CO. ANNAN, LTD.

Manufacturer

Drawing No.

27093 A

Is the approved plan of boiler forwarded herewith

Retained for duplicate cases

NO

GENERAL REMARKS

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

The materials and workmanship are good.

The boiler has been constructed under special survey and in accordance with the Admiralty

specification.

The boiler was ordered by Messrs John Dickinson & Sons Ltd Sunderland (their contract

No 928) for the Admiralty. It is being consigned to Victoria Dock Hull for

Messrs Brown Shipbuilding & Dry Dock Co Ltd Hull.

The above boiler installed on board "Vic 39" at Hull, examined under steam, safety valves

adjusted to 120 lb, accumulation test held found satisfactory after all tests.

SV size 1 1/4" S 5/32"

W S Shields - Hull.

Survey Fee

£ 4 : 4 : -

When applied for

16 Nov 43

When received

19

Travelling Expenses (if any)

£ 1 : 1 : -

When received

19

Committee's Minute

GLASGOW

29 JUN 1943

Refered for

Completion

Not for

Blanching

Comms

Foundation

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Lloyd's Register

Foundation