

REPORT ON BOILERS.

No. 69336

22 FEB 1945

Received at London Office

Date of writing Report

19

When handed in at Local Office

19. 2. 1945

Port of

GLASGOW.

No. in Survey held at

ANNAN

Date, First Survey

14. 12. 44

Last Survey

14. 2. 19 45.

Reg. Book.

on the

SS "FIREBEAM"

(Number of Visits

6

Gross 1553.73

Net 892.58

Built at

BURNTISLAND.

By whom built

BURNTISLAND SHIPBUILDING CO. LD.

Yard No.

274

When built

1945

Boilers made at

ANNAN

By whom made

COCHRAN & CO. ANNAN LD

Boiler No.

15710

When made

1945

Owners

New Glasgow Light & Coke Co. Ltd.

Port belonging to

Gordon.

VERTICAL DONKEY BOILER—

No. One

Description Cochran & Co.

Manufacturers of steel

Colvilles Ltd.

Made at Annan

By whom made

Cochran & Co. Annan Id.

When made

1945

Where fixed

Working pressure 105

tested by hydraulic pressure to

208

Date of test 14:2:45

No. of Certificate 21870

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

105

If fitted with easing gear

Yes

If steam from main boilers can

enter the donkey boiler

Diameter of donkey boiler

5'6"

Length

12'3"

Material of shell plates

S

Thickness

7/16"

1/2"

Range of tensile strength

28-32

Description of riveting long. seams

D.R. Lap.

Diameter of rivet holes

25/32"

Whether punched or

drilled

drilled

Pitch of rivets

2.69"

2.55"

2.5"

Lap of plating

3 7/8"

Per centage of strength of joint

Working pressure of shell by

rules

117

Thickness of shell crown plates

23/32"

13/32"

Radius of do.

2'9"

No. of stays to do.

Diameter of stays

-

Diameter of

furnace—Top

Bottom

4'9"

Length of furnace

-

Thickness of furnace side plates

1/2"

Description of joint

Seamless

Working

pressure of furnace by rules

144

Thickness of Ogee ring

23/32"

Working pressure of Ogee ring by rules

114

Thickness of furnace

crown plates

1/2"

Radius of do.

2'4 1/2"

Stayed by

Hemisphere

Diameter of uptake

13" x 19 1/2"

Thickness of uptake

plates

9/16"

Thickness of tube plates

front 5/8"

back 1/2"

Mean pitch of stay tubes in nest

10.5"

Pitch in outer vertical rows

8"

Diameter of tube holes

FRONT

stay 2 1/16"

plain 2 1/16"

BACK

stay 2 1/16"

plain 2 1/16"

Working pressure of tube plates by rules

F 109B.111.5

Tubes: Material

Iron

External diameter

stay 2 1/8"

plain 2 1/8"

Thickness

stay 1 1/32"

plain 1 1/32"

No. of threads per inch

9

Pitch of tubes

4" x 3 1/2"

Working pressure by rules

125

Manhole compensation; Size of opening in shell plate

21" x 17"

Section of compensating

ring

7" x 1"

No. of rivets and diameter of rivet holes

40 @ 25/32"

Outer row pitch at ends

4"

The foregoing is a correct description,

FOR COCHRAN & CO., ANNAN.

Manufacturer

Dates of Survey while building

During progress of work in shops - 19. 12. 44 to 19. 1. 45
During erection on board vessel - 19. 1. 45 to 19. 2. 45
Total No. of visits 6

Drawing No. 25694

Is the approved plan of boiler forwarded herewith YES.

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.

To the order of Messrs. David Rowan & Co., Ltd., for their Engine No. 1133.

It will be fitted on board at Burntisland. Aberdeen

Survey Fee ... £ 4 : 4 : -

When applied for Mon 4/12/44

Travelling Expenses (if any) £ : : -

When received

Committee's Minute

GLASGOW 20 FEB 1945

Assigned

Referred for completion

L. C. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 29 JUN 1945

See F. E. Mackay

009839-009847-0153