

REIVED
pt. 5e
SEP 1949

SUNDERLAND RPT. No 35269

REPORT ON BOILERS.

No. 74424

11 SEP 1949

D.O.

Date of writing Report

When handed in at Local Office

29 AUG 1949

Port of

Glasgow.

No. in Survey held at

Annan

Date, First Survey

3-3-49

Last Survey

19-8-

1949

Reg. Book

on the

DARTMOOR

Yard No.

Master

Built at Sunderland

By whom built

Wm. Doxford & Sons Ltd.

When built

1949.

Boilers made at

Annan

By whom made

Cochran & Co., Annan

Boiler No. 17580

When made

1948

Owners

Wm. Doxford & Sons Ltd.

Port belonging to

London

VERTICAL DONKEY BOILER

No. one

Description

Cochran composite

Manufacturers of steel

Colvilles Ltd.,

Made at

Annan

By whom made

Cochran & Co., Annan, Ltd

When made

1948

Where fixed

recess

Working pressure

120 lb/sq. in.

tested by hydraulic pressure to

230

Date of test

18-8-49

No. of Certificate

22944

Fire grate area

0.5

Description of safety valves

double 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

18'-6"

Material of shell plates

S

Thickness

21/32" & 13/16"

Range of tensile strength

28/32

Description of riveting long. seams

D.R. Lap

Diameter of rivet holes

1.1/32"

Whether punched or

drilled

Pitch of rivets

3.15", 3.12" & 3.16"

Lap of plating

5"

Per centage of strength of joint

66.2

Working pressure of shell by

rules

126 lb/sq. in.

Thickness of shell crown plates

19/32"

Radius of do.

4'-0"

No. of stays to do.

none

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 lb/sq. in.

Thickness of Ogee ring

1.1/32"

Working pressure of Ogee ring by rules

124 lb/sq. in.

Thickness of furnace

crown plates

23/32"

Radius of do.

3'-6"

Stayed by

hemisphere

Diameter of uptake

20" x 23 1/2"

Thickness of uptake

plates

5/8"

Thickness of tube plates

1 1/4"

Mean pitch of stay tubes in nest

as appd.

Pitch in outer vertical rows

Ex. G. 0. F. 1.11/16

Ex. G. 0. F. 2.16/16

Ex. G. 0. F. 1 1/2"

Ex. G. 0. F. 2"

Ex. G. 0. F. 1 1/2"

Ex. G. 0. F. 2"

Ex. G. 0. F. 1 1/2"

Ex. G. 0. F. 2"

Ex. G. 0. F. 1 1/2"

Ex. G. 0. F. 2"

Ex. G. 0. F. 1 1/2"

Ex. G. 0. F. 2"

Diameter of tube holes

FRONT

BACK

Working pressure of tube plates by rules

B 206 161

Tubes: Material

steel

Working pressure of tube plates by rules

B 206 161

Tubes: Material

steel

Working pressure of tube plates by rules

External diameter

stay

1 1/2" 2"

Thickness

stay

11/32"

No. of threads per inch

9

Pitch of Tubes

2.11/16" x 2 1/2"

0. F. 3.13" x 3.18"

Section of compensating

Working pressure by rules

215 lb/sq. in.

Manhole compensation; Size of opening in shell plate

21" x 17"

Section of compensating

ring

7" x 1.1/32"

No. of rivets and diameter of rivet holes

40 @ 1.1/32"

Outer raw pitch at ends

4.04"

The foregoing is a correct description,

FOR COCHRAN & CO. ANNAN, LTD.

Dates of Survey while building

During progress of work in shops

During erection on board vessel

Total No. of Visits

1949 MAR. 3-10-17-24-31. APR. 7-14-21-28. MAY. 5-12-19-26-31. JUN. 9-16-23-30. JUL. 14-29. AUG. 4-18.

Drawing No. 31352.

Is the approved plan of boiler forwarded herewith retained for duplicate case No

GENERAL REMARKS

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

Exhaust Gas H.S. 670 sq.ft. Oil Fired H.S. 540 sq.ft. Total H.S. 1210 sq.ft.

This boiler has been constructed to the order of Messrs. Wm. Doxford & Sons Ltd., for their Contract No. 771. The Boiler has been constructed under Special Survey and in accordance with the approved plan. The materials and workmanship are good.

This boiler has been securely fixed on board the vessel & Safety valves adjusted under steam to working pressure as above.

In recommendation please see Machinery Rpt.

D. T. L. L.

MONTHLY ACCOUNT

Survey Fee ... £ 12 : 12 : 0
Travelling Expenses (if any) £ : : :

When applied for ... 19 ...
When received ... 19 ...

For J. W. L. L. & self

A. R. L. L.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 31 AUG 1949

Assigned

Deferred for completion

In minute see D. T. L. L.

Lloyd's Register
51735 01243 0134