

REPORT ON BOILERS.

No. 9556

Received at London Office SAT. 9-DEC. 1916

Date of writing Report

10

When handed in at Local Office

8/12/16

10

Port of

Middleborough

No. in Reg. Book.

Survey held at

Barlington

Date, First Survey

5th May/15

Last Survey

7th Nov. 1916

(Number of Visits 19)

Gross

on the

Donkey Boiler No. 3280 for S. S. ETHELARIG

(SS No. 506)

Net

Master

Built at

Stockton

By whom built

Ropner & Sons Ltd.

When built

Boilers made at

Barlington

By whom made

Blake Boiler, Wagon & Eng. Co. Ltd.

When made 1916

Owners

Port belonging to

VERTICAL DONKEY BOILER—

No. 601

Description Blake Patent

Manufacturers of steel J. Spencer & Sons Ltd.

Made at

Barlington

By whom made

Blake Boiler, W. & E. Co. Ltd.

When made

1916

Where fixed

Stockton

Working pressure

120 lbs

tested by hydraulic pressure to

240

Date of test

7. 11. 16

No. of Certificate

5702

Fire grate area

32 sq

Description of safety valves

Direct Spring

No. of safety valves

2

Area of each

7.07

Pressure to which they are adjusted

125

If fitted with easing gear

yes

If steam from main boilers can

enter the donkey boiler

no

Dia. of donkey boiler

8'-0"

Length

18'-0"

Material of shell plates

Steel

Thickness

3/32

Range of tensile

strength

28-32

Descrip. of riveting long. seams

J. R. Lap

Dia. of rivet holes

15/16

Whether punched or drilled

drilled

Pitch of rivets

3 3/4

Lap of plating

6 3/8

Per centage of strength of joint

Plates

75

Working pressure of shell by rules

132 lbs

Thickness of shell crown plates

3/32

Radius of do.

3'-10 1/16

No. of Stays to do.

2

Dia. of stays

12" x 3/4"

Diameter of furnace Top

4'-0"

Bottom

6'-6"

Length of furnace

4'-4"

Thickness of furnace plates

1/16

Description of joint

Welded

Working pressure of furnace by rules

123 lbs

Thickness of furnace crown

C. C.

plates

Top 3/4

Radius of do.

4'-0"

Stayed by

2 plate stays

Diameter of

tubes 2 3/4

Thickness of

tube

plates

front 1 1/16

Thickness of water tubes

4 1/4

Back 1 7/32

4.9" diag.

The foregoing is a correct description.

Manufacturer.

SECRETARY.

Dates of Survey while building

During progress of work in shops - 1915 May 5. 13. June 16. 25. July 24. Aug 6. 20. Sep 7. 23. Oct 8. Nov 15. 30.

During erection on board vessel - 1916 Jan 10. Feb 8. 29 March 9. 28 Oct 26 Nov 3. 7

Total No. of visits

19.

Is the approved plan of boiler forwarded herewith yes

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

This boiler has been constructed under Special Survey, is of good material and workmanship, and has been tested by hydraulic pressure with satisfactory results.

The boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted

Survey Request No. 1163. ATTACHED.

Survey Fee ... £ 2 : 2 : Travelling Expenses (if any) £ : 13 :

When applied for, Monthly a/c When received, 19

W. W. Morrison
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. 23 FEB. 1917

Committee's Minute

Assigned

See minute L. E. attached