

REPORT ON BOILERS.

No. 12108

Received at London Office

THU. 1. 1918

Date of writing Report

31st Aug. 1918

When handed in at Local Office

3rd Sept. 1918

Port of

Aberdeen

No. in Survey held at

Aberdeen

Date, First Survey

29th January

Last Survey

17th Aug. 1918

Reg. Book.

on the

Boiler No. 919

for Admiralty

Diplom "FLICKER"

(Number of Visits)

Tons

Gross 95.86

Net 35.93

Master

Built at

Aberdeen

By whom built

A. Hall & Co. Ed. No. 553

When built

1918

Engines made at

Aberdeen

By whom made

A. Hall & Co. Ed. No. 248

when made

1918

Boilers made at

Aberdeen

By whom made

J. Abernethy & Co. Ed. No. 919

when made

1918

Registered Horse Power

43

Owners

Admiralty

Port belonging to

TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

The Steel Co. of Scotland

for record

Total Heating Surface of Boilers

814^{ft}

Is forced draft fitted

no

No. and Description of

1 single ended marine

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

17.8.18

Certificate

946

Can each boiler be worked separately

✓

Area of fire grate in each boiler

30.5^{ft}

No. and Description of

valves to each boiler

Two spring loaded

Area of each valve

3.97^{ft}

Pressure to which they are adjusted

✓

fitted with easing gear

✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

✓

distance between boilers or uptakes and bunkers or woodwork

✓

dia. of boilers

10-0

Length

9-6

of shell plates

S

Thickness

27/32

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

of riveting: cir. seams

D.R. 10^{ft}

long. seams

T.R. D.B.S.

Diameter of rivet holes in long. seams

15/16

Pitch of rivets

7"

plates or width of butt straps

13 3/4

Per centages of strength of longitudinal joint

rivets

86.9

Working pressure of shell by

192

Size of manhole in shell

16"x12"

Size of compensating ring

6"x27/32"

No. and Description of Furnaces in each

2 plain

Material

S

Outside diameter

38"

Length of plain part

top 72 1/2"

Thickness of plates

crown 1 1/2"

bottom 1 1/2"

tion of longitudinal joint

weld

No. of strengthening rings

1 on bottom

Working pressure of furnace by the rules

184.4

Material

S

Thickness: Sides

9 1/16"

Back

9 1/16"

Top

9 1/16"

Bottom

Pitch of stays to ditto: Sides

8 3/4"

Back

8 3/4"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

182

Material of stays

S

Diameter at

part

1-5"

Area supported by each stay

60"

Working pressure by rules

200

End plates in steam space: Material

S

Thickness

7/8"

stays

14 1/4"

How are stays secured

DN+W

Working pressure by rules

185

Material of stays

S

Diameter at smallest part

7/8"

Material of

supported by each stay

196"

Working pressure by rules

182

Material of Front plates at bottom

S

Thickness

7/8"

Material of

back plate

S

Thickness

7/8"

Greatest pitch of stays

13 1/4"

Working pressure of plate by rules

230

Diameter of tubes

3 1/4"

of tubes

4 3/8"x4 1/4"

Material of tube plates

S

Thickness: Front

7/8"

Back

7/8"

Mean pitch of stays

11 1/2"

Pitch across wide

paces

13 1/4"

Working pressures by rules

280

Girders to Chamber tops: Material

S

Depth and thickness of

at centre

2 plates 8"x9 1/16"

Length as per rule

2-4 1/4"

Distance apart

7"

Number and pitch of Stays in each

24 8"

g pressure by rules

191

Superheater or Steam chest: how connected to boiler

None

Can the superheater be shut off and the boiler worked

ely

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

ned with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

g pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,
JAMES ABERNETHY & COMPANY LIMITED.

Manufacturer.

During progress of

work in shops

1918 Jan 29-Feb 12-21-27 April 4-11 May 16-21-27

Is the approved plan of boiler forwarded herewith

MANAGING DIRECTOR

During erection on

board vessel

June 4-19-30 July 19-30 Aug. 17

Total No. of visits

15

GENERAL REMARKS

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

This boiler has been constructed special survey and in accordance with the Rules and approved plan. Materials and workmanship are good and on completion the boiler was tested by hydro. press. found strong and for purposes of identification stamped as under. As the boiler has now been fitted in the unclassified named ship, it is submitted no further action is necessary.

Survey Fee

...

£ 4 : 10 : 0

When applied for

4-9-

1918

Travelling Expenses (if any) £

:

When received

2-10-

19

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

Committee's Minute

Assigned

not for classing committee

Lloyd's Register
Foundation

W1449-0174