

REPORT ON BOILERS.

No. 9589

THU 18 JAN 1917

Received at London Office

Date of writing Report

191

When handed in at Local Office

17/1

1917

Port of Middlesbrough

No. in Survey held at

Stockton-on-Tees

Date, First Survey

17 Nov 1915

Last Survey

6 Jan 1917

Reg. Book.

on the

Steel screw steamer "ASHLEAF"

(Number of Visits)

(S.S.N. 505)

Gross

5768

Net

3436

Master

W. Phillips

Built at

Stockton

By whom built

Messrs Ropner & Sons

When built

1917

Engines made at

Stockton

By whom made

Messrs Blair & Co Ltd (No 1834)

When made

1917

Boilers made at

Stockton

By whom made

Messrs Blair & Co Ltd (No E. 12)

When made

1917

Registered Horse Power

Owners

Lane & Macandrew

Port belonging to

London.

MULTITUBULAR BOILERS

MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Messrs J. Spencer & Sons

Letter for record

(S)

Total Heating Surface of Boiler

1208

Is forced draft fitted

no

No. and Description of

Boilers

One single ended

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

10.3.16

No. of Certificate

5623

Can each boiler be worked separately

yes

Area of fire grate in each boiler

oil fuel

No. and Description of

Safety valves to each boiler

2 direct spring

Area of each valve

3.98

Pressure to which they are adjusted

185 lb

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers

on uptakes and bunkers or woodwork

2'-2"

External

Mean dia. of boilers

12'-0"

Length

10'-0"

Material of shell plates

steel

Thickness

15"

Range of tensile strength

29-33

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

2 R. lap

long. seams

2 B-3 Riv

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

7 3/8"

Width of butt straps

15 3/8" x 7/8"

Per centages of strength of longitudinal joint

96.0

Working pressure of shell by

rules

183

Size of manhole in shell

16" x 12"

Size of compensating ring

7 1/2" x 1 1/2"

No. and Description of Furnaces in each

Boiler

2 plain (gunlay)

Material

steel

Outside diameter

40 1/2"

Length of plain part

72 1/2"

Thickness of plates

3"

Description of longitudinal joint

Welded

No. of strengthening rings

none

Working pressure of furnace by the rules

188

Combustion chamber

Material

steel

Thickness: Sides

1/2"

Back

1/2"

Top

1/2"

Bottom

3/4"

Pitch of stays to ditto: Sides

9" x 9 1/2"

Back

8 1/2" x 9 1/2"

Top

9" x 9"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

191

Material of stays

steel

Area at

smallest part

1.99

Area supported by each stay

85.5

Working pressure by rules

210

End plates in steam space: Material

steel

Pitch of stays

18 1/2" x 16"

How are stays secured

nuts

8 x 1 1/2" washers

Working pressure by rules

204

Material of stays

steel

Area at smallest part

3.2

Area supported by each stay

3.14

Working pressure by rules

184

Material of Front plates at bottom

steel

Thickness

1 1/2"

Material of

Lower back plate

Thickness

3 1/2"

Greatest pitch of stays

15 3/8" x 9 1/2"

Working pressure of plate by rules

198

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/8" x 4 3/8"

Material of tube plates

steel

Thickness: Front

1 1/2"

Back

1 3/8"

Mean pitch of stays

10 5/8"

Pitch across wide

water spaces

14 1/2"

Working pressures by rules

188

Girders to Chamber tops: Material

steel

Depth and thickness of

order at centre

7" x 1 1/2"

Length as per rule

26 1/2"

Distance apart

9"

Number and pitch of Stays in each

2 @ 9"

Working pressure by rules

188

Steam dome: description of joint to shell

none

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER.

Type none

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

For BLAIR & CO., LIMITED

Geo Wattiship

Manufacturer.

Dates of Survey

During progress of work in shops

See accompanying

Is the approved plan of boiler forwarded herewith

yes

while building

During erection on board vessel

Machinery report.

Total No. of visits

GENERAL REMARKS

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

This boiler has been built under

special survey, is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results. The boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted

Survey Fee

...

£

included

When applied for,

191

Travelling Expenses (if any)

£

included

When received,

191

Committee's Minute

TUE. JAN. 23. 1917

FRI. 4 MAY. 1917

Assigned

Wm Morrison

Engineer Surveyor to Lloyd's Register of Shipping.

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