

REPORT ON BOILERS.

No. 24301

Received at London Office

FRI. OCT. 20. 1911

Date of writing Report

19

When handed in at Local Office

18/10/11 Port of Hull.

Date, First Survey

Jan 7th

Last Survey

5th Oct.

1911

No. in
Reg. Book.

Survey held at

Hull.

on the Steel Se. Sr. 16091

(Number of Visits)

Gross

Tons

Net

Master

Built at

By whom built

When built 1911

Engines made at

By whom made

Messrs

when made 1911

Boilers made at

Hull.

By whom made

Messrs E. & L. S.

when made 1911

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel

J. Spencer Sons

Letter for record

S

Total Heating Surface of Boilers

200 ft²

Is forced draft fitted

No

No. and Description of

Boilers One C. M. S. Engine

Working Pressure 100 lbs

Tested by hydraulic pressure to 200 lbs

Date of test 27.7.11

No. of Certificate 1827

Can each boiler be worked separately

—

Area of fire grate in each boiler

9 ft²

No. and Description of

Safety valves to each boiler

Two Spring

Area of each valve 3.1416 ft²

Pressure to which they are adjusted

100 lbs

Are they fitted with easing gear

Yes

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

No

Smallest distance between boilers or uptakes and bunkers or woodwork

6"

Int. dia. of boilers

6'-0"

Length

6'-0"

Material of shell plates

S

Thickness

1/2"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

L. S.

long. seams

L. D.

Diameter of rivet holes in long. seams

7/8"

Pitch of rivets

2 1/16"

Top of plates or width of butt straps

4 1/2"

Per centages of strength of longitudinal joint

rivets 72.
plate 68.

Working pressure of shell by

Size of manhole in shell

15" x 11"

Size of compensating ring

5 1/2" x 6 1/2" x 1/2"

No. and Description of Furnaces in each

Boiler One plain

Material

S

Outside diameter

2'-9 1/4"

Length of plain part

top 3'-11"
bottom

Thickness of plates

crown 9/16"
bottom

Description of longitudinal joint

Welded

No. of strengthening rings

0

Working pressure of furnace by the rules

183 lbs

Combustion chamber

Material

S

Thickness: Sides

9/16"

Back

9/16"

Top

9/16"

Bottom

9/16"

Pitch of stays to ditto: Sides

10"

Back

9 x 8 3/4"

Top 11 1/2"

If stays are fitted with nuts or riveted heads

No

Working pressure by rules

125 lbs

Material of stays

S

Diameter at

Smallest part

1 1/4"

Area supported by each stay

74.75 ft²

Working pressure by rules

131 lbs

End plates in steam space: Material

S

Thickness

5/8"

Pitch of stays

13"

How are stays secured

No

Working pressure by rules

103 lbs

Material of stays

S

Diameter at smallest part

1 5/8"

Area supported by each stay

169 ft²

Working pressure by rules

127 lbs

Material of Front plates at bottom

S

Thickness

5/8"

Material of

Lower back plate

S

Thickness

5/8"

Greatest pitch of stays

9" x 8 3/4"

Working pressure of plate by rules

171 lbs

Diameter of tubes

2 1/2"

Pitch of tubes

3 1/2" x 3 1/2"

Material of tube plates

S

Thickness: Front

5/8"

Back

5/8"

Mean pitch of stays

8 3/4"

Pitch across wide

Water spaces

12 1/2"

Working pressures by rules

102 lbs

Girders to Chamber tops: Material

S

Depth and thickness of

Order at centre

5" x 1 1/2"

Length as per rule

17 5/16"

Distance apart

11 1/2"

Number and pitch of Stays in each

one

Working pressure by rules

124 lbs

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

separately

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

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

J. J. Dale Thompson

Manufacturer.

Dates

During progress of

See Macky Rph

Is the approved plan of boiler forwarded herewith

Yes

Survey

work in shops - - -

while

During erection on

building

board vessel - - -

Total No. of visits

GENERAL REMARKS

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

This boiler has been
 built under special survey in accordance with the Rules.
 The materials and workmanship are good. The boiler tested
 hydraulic pressure, secured on board and tested under
 steam, and eligible in my opinion to be classed, as per the
 machinery report.

Survey Fee

...

£

:

:

When applied for,

19

Travelling Expenses (if any) £

:

:

When received,

19

Committee's Minute
 signed
 TUE. NOV. 21. 1911

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

