

## REPORT ON BOILERS.

No. 311

Received at London Office

MON. 20 JAN. 1919

Date of writing Report

17/1/19

1919

When handed in at Local Office

17/1/19

1919

Port of

SHEFFIELD.

No. in

Survey held at

OLDBURY

Date, First Survey

29/11/17

Last Survey

5/1/18

1918

Reg. Book.

on of Safety

Master

Engines made at

Boilers made at

Registered Horse Power

Built at

Lundbury

By whom built

North of Ireland S.P. 8<sup>th</sup> 11/72

When built

When made

When made

Port belonging to

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

Lund, Kim Mottelshill, Parkgate

Letter for record

S.

Total Heating Surface of Boilers

920 ft<sup>2</sup>

Is forced draft fitted

no

No. and Description of

Boilers

1. S.E. 40<sup>th</sup> Multitubular

Working Pressure

100 lb

Tested by hydraulic pressure to

200 lb

Date of test

5-11-18

No. of Certificate

404

Can each boiler be worked separately

yes

Area of fire grate in each boiler

29 ft<sup>2</sup>

No. and Description of

Safety valves to each boiler

2 Spring loaded

Area of each valve

4.9 ft<sup>2</sup>

Pressure to which they are adjusted

Not adjusted

Are they fitted with easing gear

yes

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

Smallest distance between boilers or uptakes and bunkers or woodwork

5'-0"

Mean dia. of boilers

10'-0"

Material of shell plates

Steel

Thickness

5"

Range of tensile strength

28/32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

Lap, single

long. seams

D.B.S. double

Diameter of rivet holes in long. seams

7/8"

Pitch of rivets

3 5/8"

Gap of plates or width of butt straps

9 1/2"

Per centages of strength of longitudinal joint

rivets 17 1/2%

plate 74 1/2%

Working pressure of shell by

Size of manhole in shell

16" x 12"

Size of compensating ring

MS thick, Lap

No. and Description of Furnaces in each

Boiler

Lund, plain

Material

Steel

Outside diameter

3'-1"

Length of plain part

top 7'-0"

bottom 7'-6"

Thickness of plates

crown 9/16"

bottom 9/16"

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by the rules

112 lb

Combustion chamber

Material

Steel

Thickness: Sides

1/2"

Back

3/8"

Top

1/2"

Bottom

37/32"

Pitch of stays to ditto: Sides

9'-7"

Back

10'-2 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

106 lb

Material of stays

Steel

Area at

Smallest part of stay

7/8" x 1 1/4"

Area supported by each stay

92 1/8 ft<sup>2</sup>

Working pressure by rules

150 lb

End plates in steam space: Material

Steel

Thickness

7/8"

How are stays secured

2 1/2" x 1 1/4"

Working pressure by rule

120 lb

Material of stays

Steel

Area at smallest part

1 1/4"

Area by each stay

276 ft<sup>2</sup>

Working pressure by rules

134 lb

Material of Front plates at bottom

Steel

Thickness

5/8"

Material of

Lower back plate

Steel

Thickness

5"

Greatest pitch of stays

14'-12"

Working pressure of plate by rules

109 lb

Diameter of tubes

3 1/2"

Pitch of tubes

4 5/8"

Material of tube plates

Steel

Thickness: Front

3/4"

Back

5/8"

Mean pitch of stays

10 3/8"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

100 lb

Girders to Chamber tops: Material

Steel

Depth and thickness of

inner at centre

8" x 1 1/2"

Length as per rule

2'-2"

Distance apart

8 1/2"

Number and pitch of Stays in each

Lund, 7"

Working pressure by rules

123 lb

Steam dome: description of joint to shell

-

% 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

-

PERHEATER. Type

-

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

-

FOR FRED DANKS LIMITED.

The foregoing is a correct description,

W. M. Bence

WORKS SECRETARY

Manufacturer.

Dates

During progress of

22/8-26/8/17-16/1-20/1-29/1-19/2-16/4-30/4-13/5-3/6-11/6-24/6

Survey

work in shops - - -

While

During erection on

board vessel - - -

Building

30/10-5/11/18

Forwarded to London with Report N° 262

Is the approved plan of boiler forwarded herewith

Total No. of visits

GENERAL REMARKS

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

This boiler has been built under

Special Survey, the material tested in accordance with the Rules and the workmanship in

accord. The boiler is intended for the North of Ireland S.P. 8<sup>th</sup> 11/72 vessel

This Boiler is stated to have been fitted in the SS. "Ville du Havre"

built by the North of Ireland S. Coy., under B.V. and, B.S. surveys

Survey Fee

£ 2 : 2 : 0

When applied for

Jan 18<sup>th</sup> 1919

Travelling Expenses (if any)

£ 3 : 8 : 9

When received

5<sup>th</sup> March 1919

Committee's Minute

TUE. JUN. 22 1920

Signed

TUE. 29 NOV. 1921

FRI. DEC. 22 1922

FRI. JUN. 29 1923

P. L. Morton

Engineer Surveyor to Lloyd's Register of Shipping.

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