

## REPORT ON BOILERS.

No. 30643

Received at London Office

7-AUG. 1918

Date of writing Report

191

When handed in at Local Office

6/8 1918 Port of Hull

No. in Survey held at

Hull

Date, First Survey

Feb 25/18

Last Survey

191

Reg. Book.

on the

steel screw tug "Lancey"

(Number of Visits

67)

Gross

574

Tons

Net 208

Master

Built at

Hessle

By whom built

Livingstone &amp; Cooper

When built

1912-2

Engines made at

Birmingham

By whom made

Belliss &amp; Morcom

When made

1912-2

Boilers made at

Hull

By whom made

Earle's Co. Ltd

When made

1912-2

Registered Horse Power

186

Owners

British Admiralty

Port belonging to

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

John Spencer Sons

(Letter for record

S)

Total Heating Surface of Boilers

3600 sq ft

Is forced draft fitted

no

No. and Description of

Boilers

Two single ended

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

F 14-5-12

No. of Certificate

F 3293

Can each boiler be worked separately

yes

Area of fire grate in each boiler

66 sq ft

No. and Description of

safety valves to each boiler

Two spring loaded

Area of each valve

7.06 sq in

Pressure to which they are adjusted

185 lbs

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 or uptakes and bunkers or woodwork

two feet

dia. of boilers

169 2/32

Length

10'-6"

Material of shell plates

steel

Thickness

1 7/32

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

J.P.D.B.S.

Diameter of rivet holes in long. seams

1 7/16

Pitch of rivets

8 7/16

Lap of plates or width of butt straps

17 1/2

Per centages of strength of longitudinal joint

rivets 85.7

Working pressure of shell by

rules

183

Size of manhole in shell

20" x 16"

Size of compensating ring

12" x 1 7/32

No. and Description of Furnaces in each

boiler

Three furnaces

Material

steel

Outside diameter

48 1/4"

Length of plain part

top

Thickness of plates

crown

bottom

19 1/32

Description of longitudinal joint

welded

No. of strengthening rings

yes

Working pressure of furnace by the rules

195

Combustion chamber

plates: Material

steel

Thickness: Sides

19 1/32

Back

19 1/32

Top

19 1/32

Bottom

Pitch of stays to ditto: Sides

8 1/4" x 7"

Back

Top 9" x 7"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

188

Material of stays

steel

Diameter at

smallest part

1 1/8"

Area supported by each stay

64 sq in

Pitch of stays

19 1/4" x 18 1/2"

How are stays secured

D.A.W.

Working pressure by rules

187

Material of stays

steel

Diameter at smallest part

6 1/2"

Area supported by each stay

356 sq in

Working pressure by rules

182

Material of Front plates at bottom

steel

Thickness

19 1/16"

Material of

Lower back plate

steel

Thickness

27 1/32"

Greatest pitch of stays

Pitch of tubes

4 7/16"

Material of tube plates

steel

Thickness: Front

19 1/16"

Back

13 1/16"

Mean pitch of stays

11"

Pitch across wide

water spaces

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

7 3/8" x 2 1/2"

Length as per rule

30.58

Distance apart

9"

Number and pitch of Stays in each

Three

7"

Working pressure by rules

180

Superheater or Steam chest: how connected to boiler

yes

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

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Are they fitted with easing gear

Working pressure of end plates

yes

Area of safety valves to superheater

yes

The foregoing is a correct description,

J.C.

Manufacturer.

Assistant Manager

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

67

Dates

During progress of

1918: Feb 25 to Aug 3rd

of Survey

while

work in shops - -

building

During erection on

board vessel - -

Survey Fee

£ 14 : 19

Travelling Expenses (if any) £

:

When applied for,

1918

When received,

26/10/1918

1918

1918

1918

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

These Boilers have been constructed

under special survey in accordance with the approved plan &amp; the Rules of this Society the materials &amp; workmanship are good. The boilers have been tested by hydraulic pressure as above found sound &amp; tight. They have been properly fitted &amp; secured on board the vessel in accordance with the specifications &amp; the safety valves adjusted under steam.

Survey Fee

£ 14 : 19

Travelling Expenses (if any) £

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1918

When received,

26/10/1918

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Committee's Minute

TUE. 13 AUG. 1918

Assigned

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