

REPORT ON BOILERS.

No. 6064

Received at London Office

WED 29 DEC 1909

Date of writing Report

19

When handed in at Local Office

28th Dec 1909 Port of Middlesbrough

No. in Survey held at

Stockton-on-Tees

Date, First Survey 25th Oct.Last Survey 20th Dec.

1909

Reg. Book.

on the

S. S. "Spilsby"

S.S. No 451

(Number of Visits)

14

Gross

Tons

Net

Master

Built at Stockton

By whom built Messrs. Robner & Sons

When built 1910

Engines made at

Stockton

By whom made

Messrs. Robner & Sons

(Boiler No 2593)

when made

1910

Boilers made at

Stockton

By whom made

Messrs. Robner & Sons

when made

1910

Registered Horse Power

Owners

Messrs. Robner & Sons

Port belonging to

Stockton

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel J. Spence & Sons Ltd.

Letter for record

(S)

Total Heating Surface of Boilers

948 sq ft

Is forced draft fitted

No. and Description of

Boilers

One single ended

Working Pressure

100

Tested by hydraulic pressure to

200

Date of test 20.12.09

No. of Certificate

4346

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

No. and Description of

Safety valves to each boiler

2 direct spring

Area of each valve

7.07

Pressure to which they are adjusted

105 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

ft

Mean dia. of boilers

10'-6"

Length

10'-0"

Material of shell plates

steel

Thickness

5/8

Range of tensile strength

29 1/2 - 32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

Lap Riveting

seams

3 Riv Lap

Diameter of rivet holes in long. seams

15/16

Pitch of rivets

3 5/8"

Gap of plates or width of butt straps

6 1/2"

Per centages of strength of longitudinal joint

rivets 77.7

plate 74.1

Working pressure of shell by

Rules

103 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

5 1/2 x 13/16"

No. and Description of Furnaces in each

Boiler

2 plain

Material

steel

Outside diameter

38"

Length of plain part

top 81 1/2"

Thickness of plates

crown 5/8"

bottom 104"

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

135 lbs

Plates: Material

steel

Thickness: Sides

17/32"

Back

1/2"

Top

17/32"

Bottom

1/2"

Pitch of stays to ditto: Sides

9 1/2"

Back

8 1/2 x 9"

Top

8 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

100 lbs

Material of stays

steel

Diameter at

Smallest part

1 1/4"

Area supported by each stay

76.5"

Working pressure by rules

101 lbs

End plates in steam space: Material

steel

Thickness

1 1/2"

Pitch of stays

18 1/2 x 18 1/2"

How are stays secured

nuts

Working pressure by rules

180 lbs

Material of stays

steel

Diameter at smallest part

2.34"

Area supported by each stay

356 sq"

Working pressure by rules

125 lbs

Material of Front plates at bottom

steel

Thickness

1 3/8"

Over back plate

steel

Thickness

1 3/8"

Greatest pitch of stays

13" x 9"

Working pressure of plate by rules

182 lbs

Pitch of tubes

4 1/2 x 4 1/2"

Material of tube plates

steel

Thickness: Front

1 3/8"

Back

2 1/2"

Mean pitch of stays

11 1/2"

Pitch across wide

Water spaces

13 3/4"

Working pressures by rules

117 lbs

Girders to Chamber tops: Material

steel

Depth and thickness of

Order at centre

6" x 1 1/4"

Length as per rule

24 1/4"

Distance apart

8 1/2"

Number and pitch of Stays in each

on @ 9 1/2"

Working pressure by rules

106 lbs

Superheater or Steam chest: how connected to boiler

none

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,

THOMAS BUDRON & CO. LIMITED,

Manufacturer.

Dates

During progress of

work in shops - -

Survey

while

building

During erection on

board vessel - -

1909 Oct 25 27 29 Nov 24 9 17 1920 Dec 13 1920 Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

14

GENERAL REMARKS

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

This boiler was partly built before being

submitted for survey. The work then in hand was specially examined and the completion of the boiler carried out under special survey in accordance with the approved plan and Secretary's letter E-29.10.09. The materials & workmanship are sound & good; and the results of the tests of the steel, which are satisfactory, are forwarded herewith. A hydraulic test was satisfactory and the boiler is to be fitted on board at this port.

Survey Fee

...

£

3 - 3-0

When applied for,

Monthly 2/6

Travelling Expenses (if any) £

When received,

22 1/2 1910

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

FRI. 6 MAY 1910

Committee's Minute

Assigned

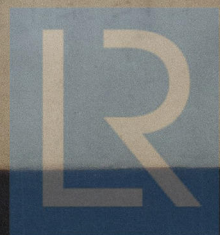
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