

REPORT ON BOILERS.

No. 6080

1910 JAN 13 1910

Received at London Office

of writing Report

19

When handed in at Local Office

12th Jan. 1910

Port of Middlesbrough

1910

Survey held at

Stockton-on-Tees

Date, First Survey

20th Nov. 1909

Last Survey

1910

Book.

on the

S.S. "Sterndale"

(Number of Visits)

S.S. No 607

Gross 2925.18

Net 1808.35

er

J. Davis

Built at

Thornaby-on-Tees

By whom built

Messrs Richardson Duck & Co

When built

1910

nes made at

Stockton

By whom made

Blair & Co

when made

1910

made at

Stockton

By whom made

Riley Bros Ltd (No 4093)

when made

1910

tered Horse Power

Owners

John W. L. Lucas & Co

Port belonging to

Bristol

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

J. Spencer & Sons Ltd

er for record

(a)

Total Heating Surface of Boilers

863 sq

Is forced draft fitted

No. and Description of

ers

One single ended

Working Pressure

90 lb

Tested by hydraulic pressure to

180 lb

Date of test

6.1.10

of Certificate

4353

Can each boiler be worked separately

✓

Area of fire grate in each boiler

33 sq

No. and Description of

valves to each boiler

2 direct-acting

Area of each valve

7.07

Pressure to which they are adjusted

95

they fitted with easing gear

yes

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

no

least distance between boilers or uptakes and bunkers or woodwork

✓

Mean dia. of boilers

10' 0"

Length

10' 0"

rial of shell plates

steel

Thickness

17/32

Range of tensile strength

28-52

Are the shell plates welded or flanged

no

rip. of riveting: cir. seams

2 Riv lap

long. seams

2 B-3 Riv

Diameter of rivet holes in long. seams

15/16

Pitch of rivets

4"

of plates or width of butt straps

9 1/2 x 17/32

Per centages of strength of longitudinal joint

96.6

Working pressure of shell by

plate 76.5

Size of manhole in shell

16" x 12"

Size of compensating ring

Mc Neil's

No. and Description of Furnaces in each

2 plain

Material steel

Outside diameter

36

Length of plain part

top 78"

Thickness of plates

3/16"

bottom 6" mean

ription of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

104

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 7" Back 9" x 8 1/4"

9" x 7"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

97 lb

Material of stays

IRON

Diameter at

est part

1.36

Area supported by each stay

95.58

Working pressure by rules

91

End plates in steam space: Material

steel

Thickness

25/32

of stays

18 x 17

How are stays secured

nuts &

Working pressure by rules

95

Material of stays

IRON

Diameter at smallest part

2.54"

supported by each stay

324

Working pressure by rules

117

Material of Front plates at bottom

steel

Thickness

25/32

back plate

steel

Thickness

25/32

Greatest pitch of stays

13" x 9"

Working pressure of plate by rules

168

Diameter of tubes

3 1/2"

of tubes

4 5/8" x 4 1/2"

Material of tube plates

steel

Thickness: Front

25/32

Back

9/16"

Mean pitch of stays

9 1/4"

Pitch across wide

spaces

15"

Working pressures by rules

104 lb

Girders to Chamber tops: Material

steel

Depth and thickness of

at centre

5 1/2" x 1 1/2"

Length as per rule

2'-3"

Distance apart

9"

Number and pitch of Stays in each

2 @ 7"

ing pressure by rules

99

Superheater or Steam chest: ~~how connected to boiler~~ none

Can the superheater be shut off and the boiler worked

ately

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

ened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

ing pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description, RILEY BROS. (BOILERMAKERS) LIMITED, Manufacturer.

Is the approved plan of boiler forwarded herewith SECRETARY, yes

Total No. of visits 10

es

During progress of

1909 Nov. 26. 29. Dec. 1. 6. 13. 15. 17. 20. 20.

vey

work in shops - -

1910. Aug. 6.

le

During erection on

board vessel - - -

ing

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

This boiler has been built under

cial Survey in accordance with the approved plan, the Secretary's letter "E" - 9.11.09

in general conformity with the Rules. The materials and workmanship are sound & good,

on completion the boiler was tested by hydraulic pressure with satisfactory results

The boiler is to be fitted on board at this port.

Survey Fee

£ 2 - 18 - 0

When applied

1910

When received,

1910

Travelling Expenses (if any) £

✓

:

:

:

W. Morrison

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

Committee's Minute

TUES. 1 MAR 1910

igned



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Lloyd's Register

Foundation

W545 0270

Red such 687

S. S. Standale

Louise Porter



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