

# REPORT ON BOILERS.

No. 6080

JAN 13 1910

Received at London Office

of writing Report

19

When handed in at Local Office

12<sup>th</sup> Jan. 1910

Port of Middlesbrough

Date, First Survey

20<sup>th</sup> Nov. 1909 Last Survey

17<sup>th</sup> Jan. 1910

Survey held at

Stockton-on-Tees

Book

on the

S.S. "Sterndale"

er

J. Davis

Built at

Thornaby-on-Tees

By whom built

Green Richardson & Co

When built

1910

nes made at

Stockton

By whom made

Blair & Co

when made

1910

made at

Stockton

By whom made

Riley Bros. (No 4093)

when made

1910

tered Horse Power

Owners

John W. L. Lucas & Co

Port belonging to

Bristol

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

J. Spencer & Sons Ltd

er for record

(a)

Total Heating Surface of Boilers

863 sq ft

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 ft

No. and Description of

valves to each boiler

2 direct-acting

Area of each valve

7.07

Pressure to which they are adjusted

95 lb

they fitted with easing gear

yes

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

no

lest distance between boilers or uptakes and bunkers or woodwork

✓

Mean dia. of boilers

10'-0"

Length

10'-0"

erial of shell plates

steel

Thickness

17/32

Range of tensile strength

28-32

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

76.5

plate

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

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

104

Combustion chamber

Material

steel

Thickness: Sides

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"

Material of stays

IRON

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

97 lb

Material of stays

IRON

Diameter at

smallest part

2.54"

Area supported by each stay

95.58

Working pressure by rules

91

End plates in steam space: Material

steel

Thickness

How are stays secured

nuts & bolts

Working pressure by rules

95

Material of stays

IRON

Diameter at smallest part

2.54"

Working pressure by rules

117

Material of Front plates at bottom

steel

Thickness

25/32

Material of

back plate

Thickness

25/32

Greatest pitch of stays

13" x 9"

Working pressure of plate by rules

168

Diameter of tubes

3 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"

Superheater or Steam chest: ~~how connected to boiler~~

none

Can the superheater be shut off and the boiler worked

separately

Material

Description of longitudinal joint

Diam. of rivet

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Thickness of shell plates

Working pressure of shell by rules

97 lb

Diameter of flue

Material of flue plates

Thickness

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

yes

Material

Description of longitudinal joint

Diam. of rivet

Working pressure of shell by rules

97 lb

Diameter of flue

Material of flue plates

Thickness

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

yes

Material

Description of longitudinal joint

Diam. of rivet

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

Is the approved plan of boiler forwarded hereunder SECRETARY, yes

Total No. of visits 10

es

During progress of work in shops

1909 Nov. 26. 29. Dec. 1. 6. 12. 15. 17. 20. 20.

le

During erection on board vessel

1910. Jan. 6.

ing

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

This boiler has been built under

special 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

Monthly

When received

1910

Travelling Expenses (if any) £

✓

When received

1910

W. Morrison

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

Committee's Minute

FEB. 1 MAR 1910

igned



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W545-0270

Red. such 607

S. S. <sup>1800</sup>Stardale

Loubey Boiler



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