

t. 5a.

REPORT ON BOILERS

hon. 72681

No. 6069

SAT. 1 JAN 1910

Received at London Office

of writing Report

10

When handed in at Local Office

31st Dec. 1009

Port of

MIDDLESBROUGH-ON-TEES.

Survey held at

Stockton-on-Tees

Date, First Survey

11th Dec. 1009

Last Survey

30th Dec. 1909

1909

on the

To Triargate

(Number of Visits)

13

Gross

Tons

Net

ter

Built at

St. Yarmouth

By whom built

F. W. Crabtree & Co. Ltd

When built

ines made at

By whom made

when made

ates made at

Stockton

By whom made

Riley Bros Ltd (No. 4079)

when made

1909

istered Horse Power

Owners

Port belonging to

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

J. Spencer & Sons

ter for record

(5)

Total Heating Surface of Boilers

1150 sq

Is forced draft fitted

No. and Description of

lers

One Single Ended

Working Pressure

130

Tested by hydraulic pressure to

260

Date of test

30.12.09

of Certificate

4350

Can each boiler be worked separately

Area of fire grate in each boiler

36 sq

No. and Description of

ty valves to each boiler

Area of each valve

Pressure to which they are adjusted

125 lb

they fitted with easing gear

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

allest distance between boilers or uptakes and bunkers or woodwork

Inside

Mean dia. of boilers

11'-6"

Length

10'-6"

aterial of shell plates

steel

Thickness

3/4

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

crip. 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

7 1/4

of plates, or width of butt straps

13 x 3/4

Per centages of strength of longitudinal joint

94.5

Working pressure of shell by

plate

97.03

es

139 lb

Size of manhole in shell

16 x 12"

Size of compensating ring

Mc. Neil's

No. and Description of Furnaces in each

les

2 plain

Material

steel

Outside diameter

44

Length of plain part

top 80"

bottom 110"

Thickness of plates

crown 3/4

bottom 7/8

mean 7/8

escription of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

140

Combustion chamber

5-10-tes: Material

steel

Thickness: Sides

19/32

Back 7/8

Top 19/32

Bottom 1 1/8

Pitch of stays to ditto: Sides

9 1/4

Back 9 1/4 x 8 1/4

2-3-10 8 x 8

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

134

Material of stays

steel

Diameter at

4-1 smallest part

1 1/8

Area supported by each stay

84.4

Working pressure by rules

137

End plates in steam space: Material

steel

Thickness

1/2

ch of stays

16 x 15

How are stays secured

nuts & washers

Working pressure by rules

130

Material of stays

steel

Diameter at smallest part

2-04

ea supported by each stay

240

Working pressure by rules

141

Material of Front plates at bottom

steel

Thickness

1/2

Material of

PPF. over back plate

steel

Thickness

1/2

Greatest pitch of stays

13 x 9 1/4

Working pressure of plate by rules

179

Diameter of tubes

3 1/2

PPF. ch of tubes

4 3/4 x 4 5/8

Material of tube plates

steel

Thickness: Front

1/2

Back 3/4

Mean pitch of stays

11 3/4

Pitch across wide

ter spaces

13 1/2"

Working pressures by rules

139 lb

Girders to Chamber tops: Material

steel

Depth and thickness of

der at centre

7 1/2 x 1 1/4

Length as per rule

30"

Distance apart

8"

Number and pitch of Stays in each

2 @ 8"

Working pressure by rules

141 lb

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

es

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

orking pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

For the foregoing is a correct description,
RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates

During progress of

work in shops - - -

Survey

while

ilding

board vessel - - -

1909. Dec. 11. 14. 18. 21. 25. 29. 1909. 9. 16. 18. 22. 26. 29.

Dec. 30.

Is the approved plan of boiler forwarded herewith

yes.

Total No. of visits

13

GENERAL REMARKS

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

This boiler has been built under

Special Survey in accordance with the plan forwarded herewith, the Secretary's letter E, 22.9.09 and in general conformity with the Rules. The materials and workmanship are sound and good, and on completion the boiler was tested by hydraulic pressure with satisfactory results.

Survey Fee

...

...

£

3-17-9

When applied for,

21. 12. 09

Travelling Expenses (if any) £

:

When received,

16. 1. 1909

W. Morrison

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

Committee's Minute

FRI. 27 MAY 1910

Assigned

not for class. Amel.



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Lloyd's Register
Foundation

9.9.92

Hand.
3-1-10.