

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

31<sup>st</sup> Dec. 1909 Port of

MIDDLESBROUGH-ON-TEES.

Survey held at

Stockton-on-Tees

Date, First Survey

11 Feb. 1909

Last Survey

30<sup>th</sup> Dec. 1909

1909

on the

To "Triargate"

(Number of Visits)

13

Gross

Tons

Net

By whom made

Built at

St. Yarmouth

By whom built

F. W. Crabtree & Co. Ltd

When built

By whom made

By whom made

Messrs Riley Bros Ltd (No. 4079)

when made

1909

Registered Horse Power

Owners

Port belonging to

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

J. Spencer & Sons

Number for record

(5)

Total Heating Surface of Boilers

1150 sq ft

Is forced draft fitted

No. and Description of

Boilers

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 ft

No. and Description of

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Inside

Mean dia. of boilers

11'-6"

Length

10'-6"

Material of shell plates

steel

Thickness

3/4

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Description of riveting: cir. seams

2 Riv laps

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

plate

94.5

Working pressure of shell by

rule

97.03

No. of manholes

2

Size of manhole in shell

16 x 12"

Size of compensating ring

Mc. Neil's

No. and Description of Furnaces in each

Description of longitudinal joint

welded

No. of strengthening rings

none

Working pressure of furnace by the rules

140

Combustion chamber

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 x 9 1/2"

Back

9 1/4 x 8 1/4"

Smallest part

1 7/8"

Area supported by each stay

84.4

Working pressure by rules

137

End plates in steam space: Material

steel

Thickness

1/2"

Pitch 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"

Area supported by each stay

240

Working pressure by rules

141

Material of Front plates at bottom

steel

Thickness

1/2"

Material of

back plate

steel

Thickness

1/2"

Pitch of tubes

4 1/2 x 4 5/8"

Material of tube plates

steel

Thickness: Front

1/8"

Back

3/4"

Mean pitch of stays

11 1/4"

Pitch across wide

spaces

13 1/2"

Working pressures by rules

139 lbs

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 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

FOR THE FOREGOING IS A CORRECT DESCRIPTION,  
RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates

During progress of

work in shops - - -

1909

Dec. 11, 14, 18, 21, 25, 29

1910

Jan. 9, 16, 22, 26, 29

Is the approved plan of boiler forwarded herewith

yes

while

erecting on

board vessel - - -

Dec. 30

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

16.1.10

J. Morrison

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

Committee's Minute

FRI. 27 MAY 1910

Assigned

not for class. Am. & Co.



© 2020 Lloyd's Register Foundation

