

REPORT ON BOILERS.

No. 10178

Received at London Office

of writing Report

101

When handed in at Local Office

13/8/18

Port of middlesbrough

Survey held at

Stockton on Tees

Date, First Survey 10th May

Last Survey 9th Aug 1918

Book.

(Number of Visits 12)

Gross

on the

s/s ~~Ortona~~ "ORTONA"

Tons

Net

ter

Built at

Bideford

By whom built

R. Cook & Son

When built

1919

ines made at

By whom made

Messrs Plender & Son Ltd

When made

ers made at

Stockton

By whom made

Messrs Riley Bros. Ltd (No. 5104)

When made

1918

stered Horse Power

Owners

R. Cook & Son

Port belonging to

Bideford

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

John Spencer & Sons.

ter for record

(5)

Total Heating Surface of Boilers

1271

Is forced draft fitted

No. and Description of

ers One single ended

Working Pressure

180

Tested by hydraulic pressure to

300

Date of test

9.8.18

of Certificate

5918

Can each boiler be worked separately

Area of fire grate in each boiler

38

No. and Description of

ty valves to each boiler

Area of each valve

Pressure to which they are adjusted

they fitted with easing gear

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

llest distance between boilers or uptakes and bunkers or woodwork

Inside

Mean dia. of boilers

12'-0"

Length

11'-0"

erial of shell plates

steel

Thickness

31/32

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

rip. of riveting: cir. seams

2: 12 lap

long. seams

2: 13-3 Riv

Diameter of rivet holes in long. seams

1 1/16

Pitch of rivets

7 1/8"

of plates or width of butt straps

15 3/4 x 1 1/2

Per centages of strength of longitudinal joint

86.5

Working pressure of shell by

180

Size of manhole in shell

19" x 15"

Size of compensating ring

7" x 1" McNeil

No. and Description of Furnaces in each

or 2 Morrison

Material steel

Outside diameter

44 1/2

Length of plain part

top

Thickness of plates

crown

7 1/16"

ription of longitudinal joint

Weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

190

Combustion chamber

es: Material steel

Thickness: Sides

5/8"

Back

2 1/32"

Top

5/8"

Bottom

13/16"

Pitch of stays to ditto: Sides

9" x 8"

Back

8 1/4 x 9 3/4"

8" x 8"

If stays are fitted with nuts or riveted heads

nut

Working pressure by rules

183

Material of stays

steel

Area at

llest part

1.73 Area supported by each stay

72

Working pressure by rules

193

End plates in steam space: Material

steel

Thickness

1"

h of stays

16 x 15 1/2"

How are stays secured

nuts &

6 x 3/4" washers

Working pressure by rules

188

Material of stays

steel

Area at smallest part

4.57

supported by each stay

261

Working pressure by rules

182

Material of Front plates at bottom

steel

Thickness

1"

er back plate

steel

Thickness

1"

Greatest pitch of stays

14 x 9 3/4"

Working pressure of plate by rules

238

Diameter of tubes

3 1/2"

h of tubes

5 x 4 3/4"

Material of tube plates

steel

Thickness: Front

1"

Back

13/16"

Mean pitch of stays

11 1/4"

Pitch across wide

spaces

15"

Working pressures by rules

181

Girders to Chamber tops: Material

steel

Depth and thickness of

er at centre

10' x 1 3/4"

Length as per rule

36"

Distance apart

8"

Number and pitch of Stays in each

3 @ 8"

king pressure by rules

181

Steam dome: description of joint to shell

none

% of strength of joint

meter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

ERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

ter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

The foregoing is a correct description,

Manufacturer.

During progress of 1918: May 10-14-17 June 25 July 6-9-12
work in shops - - - 18-23-30 Aug. 2-9-18
During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

12

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

This boiler has been built under Special Survey: is of good material & workmanship and on completion was tested by hydraulic pressure with satisfactory results.

The above Boiler has now been fitted in above vessel.

Survey Fee

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£ 4 : 5 : 0

When applied for,

Monthly A/c

Travelling Expenses (if any) £

When received,

191

Committee's Minute

TUE. 18 FEB. 1919

Engineer Surveyor to Lloyd's Register of Shipping.

igned