

# REPORT ON BOILERS.

No. 10407

Received at London Office

Writing Report

When handed in at Local Office

19.6.19

Port of

Middlesbrough

Survey held at

Stockton-on-Tees

Date, First Survey

7th March

Last Survey

13th June 1919

(Number of Visits)

Gross

Tons

Net

on the

S.S. Orleigh

Built at

Appledram

By whom built

T. Cock & Sons

When built

1919

made at

Newbury

By whom made

Messrs Plenty & Son Lim.

When made

1919

made at

Stockton

By whom made

Messrs Riley Bros Ltd (No 5173)

When made

1919

red Horse Power

Owners

R. Cock & Son

Port belonging to

Bulford

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

Messrs J. Spencer & Sons

for record (S)

Total Heating Surface of Boilers

1271 sq ft

Is forced draft fitted

No

No. and Description of

One single ended

Working Pressure 180

Tested by hydraulic pressure to 360

Date of test 13.6.19

Certificate 6002

Can each boiler be worked separately

Yes

Area of fire grate in each boiler 38 sq ft

No. and Description of

valves to each boiler

Two, spring loaded

Area of each valve

4.91 sq ft

Pressure to which they are adjusted

185 lbs

is fitted with easing gear

Yes

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

Yes

distance between boilers or uptakes and bunkers or woodwork

Inside

Mean dia. of boilers 12'-0"

Length 11'-0"

of shell plates

Steel

Thickness

3 1/32"

Range of tensile strength 28-32

Are the shell plates welded or flanged

No

of riveting: cir. seams

2 R. lap

long. seams

2 B. 3 Riv

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

7 1/2"

plates or width of butt straps

15 3/4 x 1 5/16"

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"

Mc. Neil

No. and Description of Furnaces in each

2 Morrison

Material Steel

Outside diameter

44 1/4"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

tion of longitudinal joint

Weld

No. of strengthening rings

Yes

Working pressure of furnace by the rules

190

Combustion chamber

Material Steel

Thickness: Sides

5/8"

Back

2 1/32"

Top

5/8"

Bottom

1 1/16"

Pitch of stays to ditto: Sides

9 x 8"

Back

8 1/4 x 9 1/4"

8" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

183

Material of stays

Steel

Area at

part 1.73

Area supported by each stay

72

Working pressure by rules

193

End plates in steam space: Material

Steel

Thickness

1"

stays 16 x 15 1/2"

How are stays secured

nuts & 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"

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"

tubes 5 x 4 1/4"

Material of tube plates

Steel

Thickness: Front

1"

Back

1 1/16"

Mean pitch of stays

11 1/4"

Pitch across wide

spaces

at centre

10" x 1 1/8"

Length as per rule

36"

Distance apart

8"

Number and pitch of Stays in each

3 @ 8"

ing pressure by rules

181

Steam dome: description of joint to shell

none

% of strength of joint

eter

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

FOR

The foregoing is a correct description,

RILEY BROS.

Manufacturer.

During progress of

1919

Mar. 11. Apr. 17. 20. May 8. 14. 16. 20. 22. 23.

Is the approved plan of boiler forwarded herewith

yes

During erection on

20 June 13.

Total No. of visits

13.

ERAL REMARKS

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

This boiler has been built under special

is of good material and workmanship and on completion was tested by hydraulic

with satisfactory results

This boiler has been fitted on above vessel, easing gear fitted & Safety Valve

adjusted under steam

vey Fee

...

...

£

4-5-0

When applied for

Monthly 1919

avelling Expenses (if any) £

When received,

191

FRI 19 DEC. 1919

Committee's Minute

igned See minute on Lon 82297

Engineer Surveyor to Lloyd's Register of Shipping

G. A. Dryden Town

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Lloyd's Register

Foundation

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