

REPORT ON BOILERS.

No. 10857

SAT NOV. 16 1920

Received at London Office

Date of writing Report

10

When handed in at Local Office

4.11.20

10

Port of

MIDDLESBRO

No. in Survey held at
Reg. Book.

Stockton-on-Tees

Date, First Survey 14th April

Last Survey 28th Oct.

1920

on the

S.S. "Allegheny"

(Number of Visits 13)

Gross

Tons

Net

Master

Build at

Chester

By whom built

J. Chighton & Co

When built

1921

Engines made at

Chatter

By whom made

Thos. J. Leighton & Co

When made

1921

Boilers made at

Stockton

By whom made

Thos. Riley & Sons (N^o 5247)

When made

Registered Horse Power

Owners

Port belonging to

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

John Spencer & Sons Ltd

Letter for record

(5)

Total Heating Surface of Boilers

940 $\frac{1}{2}$

Is forced draft fitted

No. and Description of

boilers

One single ended

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

28.10.20

No. of Certificate

6169

Can each boiler be worked separately

Area of fire grate in each boiler

31 $\frac{1}{2}$

No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

are 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

9'-3"

Length

10'-9"

Material of shell plates

steel

Thickness

25 $\frac{1}{32}$ "

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

2-R. lap

long. seams

2-B-3 Riv

Diameter of rivet holes in long. seams

15 $\frac{1}{16}$ "

Pitch of rivets

7"

width of butt straps

13 $\frac{1}{2}$ x 23 $\frac{1}{32}$

Per centages of strength of longitudinal joint

94.1

plate

86.57

Working pressure of shell by

rules

180

Size of manhole in shell

19 $\frac{1}{2}$ x 15 $\frac{1}{2}$

Size of compensating ring

7 x 1" McNeil

No. and Description of Furnaces in each

boiler

2 Morrison

Material steel

Outside diameter

34 $\frac{1}{2}$ "

Length of plain part

top

bottom

Thickness of plates

crown

bottom

7 $\frac{1}{8}$ "

Description of longitudinal joint

weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

184

Combustion chamber

plates: Material

steel

Thickness: Sides

5 $\frac{1}{8}$ "

Back

5 $\frac{1}{8}$ "

Top

5 $\frac{1}{8}$ "

Bottom

5 $\frac{1}{8}$ "

Pitch of stays to ditto: Sides

8 x 8"

Back

9 x 8"

top

8 $\frac{1}{2}$ x 8"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

186

Material of stays

steel

Area at

smallest part

1.73

Area supported by each stay

72

Working pressure by rules

190

End plates in steam space: Material

steel

Thickness

1"

Pitch of stays

14 $\frac{1}{2}$ x 16 to tubes

low are stays secured

nuts

7 x 3 $\frac{1}{4}$ "

Working pressure by rules

191

Material of stays

steel

Area at smallest part

5.04"

Area supported by each stay

271

Working pressure by rules

194

Material of Front plates at bottom

steel

Thickness

1"

Material of

lower back plate

steel

Thickness

1"

Greatest pitch of stays

14 $\frac{1}{2}$ x 8"

Working pressure of plate by rules

194

Diameter of tubes

3"

Pitch of tubes

4 x 4"

Material of tube plates

steel

Thickness: Front

1"

Back

1 $\frac{1}{2}$ "

Mean pitch of stays

9 $\frac{1}{4}$ "

Pitch across wide

water spaces

14"

Working pressures by rules

183

Girders to Chamber tops: Material

steel

Depth and thickness of

order at centre

7 x 14"

Length as per rule

24"

Distance apart

8 $\frac{1}{2}$ "

Number and pitch of Stays in each

2 @ 8"

Working pressure by rules

200

Steam dome: description of joint to shell

none

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

PERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

FOR The foregoing is a correct description,

RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates

During progress of

work in shops - - - Apr 14.23. May 7.11. Jul. 6.22. Sep 16.28.30.

while

During erection on

board vessel - - - Oct. 1.8.18.28.

building

Is the approved plan of boiler forwarded herewith

No

Total No. of visits

Sent with report No 10843

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

This boiler has been built under

Special Survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results

Survey Fee

...

...

£

3-3-0

When applied for,

Monthly 19%.

Travelling Expenses (if any) £

:

:

When received,

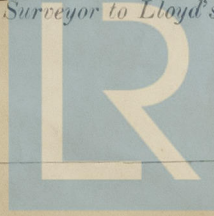
19

Committee's Minute

Assigned

Wm Morrison

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation