

REPORT ON BOILERS.

No. 10178

Date of writing Report

191

When handed in at Local Office

13/8/18

Port of

Received at London Office

THU. 15 AUG. 1918

No. in Survey held at
Reg. Book.

Stockton-on-Tees

Date, First Survey

10th May

Last Survey

9th Aug 1918

on the

(Number of Visits

Tons

Gross

Net

Master

Built at

Appledore

By whom built

Riley & Sons

When built

Engines made at

By whom made

Messrs. Plenty & Son Ltd.

When made

Boilers made at

Stockton

By whom made

Messrs. Riley Bros Ltd. (N^o 5104)

When made 1918

Registered Horse Power

Owners

Port belonging to

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

John Spencer & Sons

(Letter for record

(S)

Total Heating Surface of Boilers

1271 sq

Is forced draft fitted

No. and Description of

Boilers

One single ended

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

9.8.18

No. of Certificate

5918

Can each boiler be worked separately

Area of fire grate in each boiler

38 sq

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

12'-0"

Length

11'-0"

Material of shell plates

steel

Thickness

3/32"

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

1 1/2"

Pitch of rivets

7 1/2"

Gap of plates or width of butt straps

13 3/4" x 15 1/2"

Per centages of strength of longitudinal joint

rivets

86.5

Working pressure of shell by

rules

180

Size of manhole in shell

19" x 15"

Size of compensating ring

7" x 1" m. rail

No. and Description of

Furnaces in each

boiler

2 Morrison

Material

steel

Outside diameter

44 1/2"

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

Weld

No. of strengthening rings

Working pressure of furnace by the rules

190

Combustion chamber

plates: Material

steel

Thickness: Sides

5/8"

Back

2 1/2"

Top

5/8"

Bottom

13 1/2"

Pitch of stays to ditto: Sides

9" x 8"

Back

8 1/4" x 9 1/4"

Top 8" x 8" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

180

Material of stays

steel

Area at

smallest part

1.73

Area supported by each stay

72

Working pressure by rules

193

End plates in steam space: Material

steel

Thickness

1"

Pitch of 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

Area supported by each stay

261

Working pressure by rules

182

Material of Front plates at bottom

steel

Thickness

1"

Material of

Lower back plate

steel

Thickness

1"

Greatest pitch of stays

14" x 9 1/2"

Working pressure of plate by rules

238

Diameter of tubes

3 1/2"

Pitch of tubes

5" x 4 3/4"

Material of tube plates

steel

Thickness: Front

1"

Back

1 1/2"

Mean pitch of stays

11 1/4"

Pitch across wide

water spaces

15"

Working pressures by rules

181

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

10" x 1 3/8"

Length as per rule

36"

Distance apart

8"

Number and pitch of Stays in each

3 @ 8"

Working pressure by rules

181

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

SUPERHEATER.

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

SURVEY REQUEST

HO. 1423 ATTACHED.

FOR

The foregoing is a correct description,

RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey

while building

During progress of work in shops

During erection on board vessel

1918. May 10. 14. 17. June 25. July 6. 9. 12

18. 23. 30. Aug 2. 9.

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 and workmanship and on completion was tested by hydraulic pressure with satisfactory results

Survey Fee

£ 4 - 5 - 0

When applied for

Monthly A/C

Travelling Expenses (if any) £

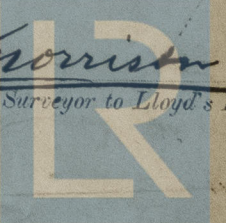
When received

191

Committee's Minute

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register Foundation