

## REPORT ON BOILERS

No. 8717.

SAT. NOV. 14. 1914

Received at London Office

Date of writing Report

191

When handed in at Local Office

Nov. 13. 1914 Port of

Middlesbrough

No. in Survey held at

Stockton

Date, First Survey

September 30

Last Survey

October 9 1914

Reg. Book.

Ship on the

S.S. Gaboon

(Number of Visits

9.)

Gross

Tons

Net

Master

Built at

Newcastle

By whom built

The Iron Works S.B.C. Ltd.

When built

1914

Engines made at

Newcastle

By whom made

N.E. Marine Eng

When made

1915

Boilers made at

Stockton

By whom made

Messrs Giley Bros. (No. 4745)

When made

1914

Registered Horse Power

Owners

Port belonging to

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

John Spencer &amp; Sons.

(Letter for record

S)

Total Heating Surface of Boilers

9600

Is forced draft fitted

no

No. and Description of

Boilers One S.S. multitubular

Working Pressure

180 lbs

Tested by hydraulic pressure to

360 lbs

Date of test

9-11-14

No. of Certificate

5414

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

28 3/4

No. and Description of

safety valves to each boiler 2 Direct spring

Area of each valve

3.54

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Yes

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

between m. boiler

dia. of boilers

10'-6"

Length

10'-0"

Material of shell plates

Steel

Thickness

53/64

Range of tensile strength

29 1/2 - 33

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

2 R. lap. long. seams

2 B. - 3 R.

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

4" S.R.

Lap of plates or width of butt straps

15" x 3/4"

Per centages of strength of longitudinal joint

rivets

88.5%

Working pressure of shell by

rules

180 lbs

Size of manhole in shell

10" x 15"

Size of compensating ring

4" x 1"

No. and Description of Furnaces in each

boiler

2 plain

Material

Steel

Outside diameter

36"

Description of longitudinal joint

weld

No. of strengthening rings

None

Working pressure of furnace by the rules

184 lbs

Combustion chamber

plates: Material

Steel

Thickness: Sides

2 1/32"

Back

5/8"

Top

2 1/32"

Bottom

15/16"

Pitch of stays to ditto: Sides

10" x 8"

Back

8 1/2" x 8 1/2"

Top

9" x 8"

If stays are fitted with nuts or riveted heads

None

Working pressure by rules

182 lbs

Material of stays

Steel

Diameter at

smallest part

1 1/4"

Area supported by each stay

40 sq"

Working pressure by rules

198 lbs

Pitch of stays

18 1/2" x 14"

How are stays secured

Tubed 4 x 9/16"

Working pressure by rules

84 lbs

Material of stays

Steel

Diameter at smallest part

5.05"

Area supported by each stay

291 sq"

Working pressure by rules

184 lbs

Material of Front plates at bottom

Steel

Thickness

1 1/2"

Material of

Lower back plate

Steel

Thickness

1 1/2"

Greatest pitch of stays

14" x 8 1/2"

Working pressure of plate by rules

244 lbs

Pitch of tubes

4 1/8" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

1 1/2"

Back

1 1/8"

Mean pitch of stays

11 1/6"

Pitch across wide

water spaces

14"

Working pressures by rules

180 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

Working pressure by rules

186 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

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If 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

No.

991

REQUEST

ATTACHED.

FOR

The foregoing is a correct description,

RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates

During progress of

work in shops - - - 1914. Sept 30. Oct 7. 9. 16. 19. 26 Nov. 3. 6. 9.

while

During erection on

board vessel - - -

building

board vessel - - -

Is the approved plan of boiler forwarded herewith

Total No. of visits

9

Yes, please return

for duplicate

Returned 18/11/14

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

This boiler has been constructed under Special Survey, is of good material and workmanship, and has been tested by hydraulic pressure with satisfactory results.

It has now been satisfactorily fitted and secured on board the vessel forwarded to Newcastle to be fitted on board

Survey Fee

...

...

£

3

:

4

:

When applied for,

191

Travelling Expenses (if any) £

:

:

:

When received,

191

MONTHLY A/C.

Thomas Miller

C. Cooper

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

Committee's Minute

Assigned

See minute on how to be attached

WED. APR. - 7. 1915

012888 - 012897 - 0087

Lloyd's Register  
Foundation