

REPORT ON BOILERS.

No. 31592.

Received at London Office

WED. JUN. 26. 1912

Date of writing Report

191

When handed in at Local Office

22.6.1912

Port of

Glasgow

No. in Survey held at

Glasgow

Date, First Survey

5.10.11

Last Survey

29.1.

1912

eg. Book.

on the Boilers 2 B170 for the T.S.S. "Matunga."

(Number of Visits

13.)

Gross

2114

Tons

Net

1181

Master R. E. McNeill

Built at

Troon

By whom built

Ailsa J. B. Co. Ltd

When built

1912

Engines made at

Troon

By whom made

Ailsa J. B. Co. Ltd

When made

1912

Boilers made at

Glasgow

By whom made

David Rowan & Co.

When made

1912

Registered Horse Power

304

Owners

Companhia Nacional de Navegacao Costeira

Port belonging to

Rio de Janeiro

MULTITUBULAR BOILERS

Auxiliary main

Manufacturers of Steel

Wm Beardmore & Co Ltd

Letter for record

(5)

Total Heating Surface of Boilers

887.7

Is forced draft fitted

No. and Description of

Boilers One single Ended

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

29/1/12

No. of Certificate

11394

Can each boiler be worked separately

Area of fire grate in each boiler

30

No. and Description of

Safety valves to each boiler

2 Spring loaded

Area of each valve

3.14

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

No O.B.

Smallest distance between boilers or uptakes and bunkers or woodwork

11"

Mean dia. of boilers

10' 6"

Length

10' 0"

Material of shell plates

Steel

Thickness

7/8"

Range of tensile strength

28632

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D. R. L.

long. seams

D. B. S.

Diameter of rivet holes in long. seams

7/16"

Pitch of rivets

6 1/8"

Pitch of plates or width of butt straps

14 1/4"

Per centages of strength of longitudinal joint

rivets

87.8

Working pressure of shell by

Rules

180

Size of manhole in shell

18" x 12"

Size of compensating ring

Flanged

No. and Description of Furnaces in each

Boiler 2 Morrison

Material

Steel

Outside diameter

3' 5"

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

184

Combustion chamber

Material

Steel

Thickness: Sides

9/16"

Back

7/8"

Top

9/16"

Bottom

3/4"

Pitch of stays to ditto: Sides

8 1/4" x 7 1/4"

Back

8 3/8" x 8 3/8"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

181

Material of stays

Steel

Diameter at

smallest part

7.06"

Area supported by each stay

1.48"

Working pressure by rules

180

Material of Front plates at bottom

Steel

Thickness

7/8"

Material of

Lower back plate

Steel

Thickness

3/16"

Greatest pitch of stays

13 1/2"

Pitch of tubes

4 1/4" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

7/8"

Back

1 1/16"

Mean pitch of stays

9 7/16"

Pitch across wide

stays

14"

Working pressures by rules

258

Girders to Chamber tops: Material

Steel

Depth and thickness of

Order at centre

6 1/2" x 1 1/2"

Length as per rule

27

Distance apart

7 1/4"

Number and pitch of Stays in each

2 at 8 1/4"

Working pressure by rules

184

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

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

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

The foregoing is a correct description,

for David Rowan & Co.

Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

13.

Dates
Survey
while
building

During progress of
work in shops - -
During erection on
board vessel - - -

1911. Oct. 5. 9. 18. 30. Nov. 15. 20. 22. 27.
Dec. 1. 8.
1912. Jan. 9. 17. 29.

Is the approved plan of boiler forwarded herewith

GENERAL REMARKS

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

This boiler has been constructed under Special Survey & is of good materials & workmanship. It is to be fitted on board at Troon. This boiler has been satisfactorily fitted on board the above vessel.

Changed on Main Rte. Rpt.

Survey Fee

...

£

:

:

When applied for,

191

Travelling Expenses (if any) £

:

:

When received,

191

H. Gardner-Smith

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

Committee's Minute

GLASGOW

25 JUN. 1912

Assigned

See accompanying machinery report.

Lloyd's Register
Foundation

008515-008523-0129