

Rpt. 5a.

## REPORT ON BOILERS.

No. 16123

Received at London Office

WED. NOV. 1-1911

Date of writing Report

19

When handed in at Local Office

27/10/11

1011

Port of

Greenock.

No. in Survey held at

Greenock.

Date, First Survey

14<sup>th</sup> Sept. 1910

Last Survey

24<sup>th</sup> Oct. 1911

1911

Reg. Book.

on the SCREW STEAMER "SANTA ROSALIA."

(Number of Visits)

79.

Gross

5409

Tons

Net

3488.

Description of Safety

Master

Donnelly

Built at

Port Glasgow.

By whom built

H. Hamilton &amp; Co. Ltd.

When built

1911.

Engines made at

Greenock.

By whom made

John G. Kincaid &amp; Co. Ltd.

when made

1911.

Boilers made at

Greenock.

By whom made

John G. Kincaid &amp; Co. Ltd.

when made

1911.

Registered Horse Power

Owners

Isthmian Steamship Co. Ltd.

Port belonging to

London.

Rivets

Plates

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville &amp; Sons.

(Letter for record

✓)

Total Heating Surface of Boilers

884 sq. ft.

Is forced draft fitted

No.

No. and Description of

Boilers One: Cylindrical built

Working Pressure

100 lb

Tested by hydraulic pressure to

200 lb

Date of test

7/6/11

No. of Certificate

1011.

Can each boiler be worked separately

✓

Area of fire grate in each boiler

20 sq. ft.

No. and Description of

safety valves to each boiler

2: Direct Spring

Area of each valve

5.94 sq. in.

Pressure to which they are adjusted

105 lb.

Are they fitted with easing gear

Yes.

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

No.

Smallest distance between boilers or uptakes and bunkers or woodwork

About

8'.

Mean dia. of boilers

10' 6"

Length

9' 6"

Material of shell plates

Steel.

Thickness

3/4"

Range of tensile strength

28 to 32 tons

Are the shell plates welded or flanged

No.

Descrip. of riveting: cir. seams

Lap Single long. seams

Lap Quadruple

Diameter of rivet holes in long. seams

7/16"

Pitch of rivets

4 1/2"

Lap of plates or width of butt straps

7/16"

Per centages of strength of longitudinal joint

rivets 85.5

plate 79.3

Working pressure of shell by

rules

100 lb

Size of manhole in shell

16" x 12"

Size of compensating ring

Flanged Ring 32"

No. and Description of Furnaces in each

Boiler 2: plain

Material

Steel

Outside diameter

38"

Length of plain part

top 6' 0"

Thickness of plates

crown 9"

bottom 16"

Description of longitudinal joint

Weld

No. of strengthening rings

partial

Working pressure of furnace by the rules

124 lb

Combustion chamber

plates: Material

Steel

Thickness: Sides

1/2"

Back

1 1/2"

Top

1/2"

Bottom

1/2"

Pitch of stays to ditto: Sides 9 x 8 1/2"

Top 8 1/2 x 9"

If stays are fitted with nuts or riveted heads

Nuts.

Working pressure by rules

100 lb

Material of stays

Steel

smallest part

1 1/8"

Area supported by each stay

76 sq. in.

Working pressure by rules

106 lb

End plates in steam space: Material

Steel

Thickness

Pitch of stays

17" x 14"

How are stays secured

Washers

Working pressure by rules

100 lb

Material of stays

Steel

Diameter at smallest part

Area supported by each stay

238 sq. in.

Working pressure by rules

132 lb

Material of Front plates at bottom

Steel

Thickness

3/4"

Material of

Lower back plate

Steel

Thickness

3/4"

Greatest pitch of stays

13"

Working pressure of plate by rules

100 lb

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

3/4"

Back

7/16"

Mean pitch of stays

11 1/2"

water spaces

13 1/2"

Working pressures by rules

111 lb

Girders to Chamber tops: Material

Steel

Depth and thickness of

Girder at centre

6 1/2" x 1 3/8"

Length as per rule

29"

Distance apart

9"

Number and pitch of Stays in each

2: 8 1/2"

Working pressure by rules

115 lb

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

The foregoing is a correct description,

John G. Kincaid &amp; Co. Ltd.

Manufacturer.

Dates of Survey

During progress of work in shops - -

while building

During erection on board vessel - - -

See accompanying report.

Is the approved plan of boiler forwarded herewith

Total No. of visits

79.

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

This boiler has been built under special survey and the workmanship is good.

For recommendation, see accompanying report.

Survey Fee ... .. £

When applied for, .....

19.

Travelling Expenses (if any) £

When received, .....

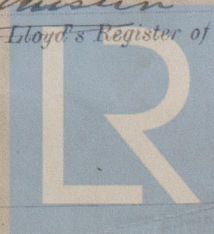
19.

GLASGOW 31 OCT. 1911

Committee's Minute

Assigned See minute on accompanying machinery report.

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



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Foundation

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