

REPORT ON BOILERS.

No. 25838

TUES. 15 OCT 1907

Received at London Office

Date of writing Report

19

When handed in at Local Office

4/10/1907

Port of

Glasgow

No. in Survey held at

Glasgow

Reg. Book.

33 Log the

Date, First Survey

May

Last Survey

22 October 1907

(Number of Visits)

Gross

Tons

Net

Master

Built at

Glasgow

By whom built

A Rodger & Co

When built

1907

Engines made at

Glasgow

By whom made

A Rodger & Co

when made

1907

Boilers made at

Glasgow

By whom made

Ewing & Lawson (1881)

when made

1907

Registered Horse Power

Owners

Port belonging to

Cardiff

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel W Beardmore & Co

(Letter for record

(S)

Total Heating Surface of Boilers

796.2

Is forced draft fitted

No

No. and Description of

Boilers One single ended

Working Pressure

80 lb

Tested by hydraulic pressure to

160 lb

Date of test

23/8/07

No. of Certificate

9131

Can each boiler be worked separately

—

Area of fire grate in each boiler

29

No. and Description of

safety valves to each boiler

2 Direct Spring

Area of each valve

8.63

Pressure to which they are adjusted

85

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

Sufficient

Mean dia. of boilers

10'-0"

Length

9'-0"

Material of shell plates

Steel

Thickness

1/2"

Range of tensile strength

27-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

S. R. L

long. seams

D. B. S.

Diameter of rivet holes in long. seams

3/16"

Pitch of rivets

4 3/4"

Lap of plates or width of butt straps

9"

Per centages of strength of longitudinal joint

rivets 97.8

Working pressure of shell by

plate 82.9

Rules

87 lb

Size of manhole in shell

16" x 12"

Size of compensating ring

Flanged

No. and Description of Furnaces in each

Boiler 2 plain

Material

Steel

Outside diameter

36"

Length of plain part

top 72"

bottom 94"

Thickness of plates

crown 1/2"

bottom 1/2"

Description of longitudinal joint

Weld

No. of strengthening rings

None

Working pressure of furnace by the rules

80

Combustion chamber

plates: Material

Steel

Thickness: Sides

1/2"

Back

1/2"

Top

1/2"

Bottom

1/2"

Pitch of stays to ditto: Sides

8 3/4" x 9"

Back

10" x 9 3/8"

Top 8 3/4" x 10 1/2" stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

82

Material of stays

Steel

Diameter at

smallest part

1.24

Area supported by each stay

92

Working pressure by rules

107

End plates in steam space: Material

Steel

Thickness

1/16"

Pitch of stays

17 1/2" x 1 1/2"

How are stays secured

D. nuts

Working pressure by rules

81

Material of stays

Steel

Diameter at

smallest part

2.17

Area supported by each stay

260

Working pressure by rules

83

Material of Front plates at bottom

Steel

Thickness

1/16"

Material of

lower back plate

Steel

Thickness

1/16"

Greatest pitch of stays

13"

Working pressure of plate by rules

130

Diameter of tubes

3 1/4"

Pitch of tubes

4 3/8"

Material of tube plates

Steel

Thickness: Front

1/16"

Back

9/16"

Mean pitch of stays

11"

Pitch across wide

water spaces

14"

Working pressures by rules

85 lb

Girders to Chamber tops: Material

Steel

Depth and thickness of

rider at centre

6 x 1/16 x 2

Length as per rule

22 1/2"

Distance apart

10 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

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,

EWING & LAWSON, LIMITED

Manufacturer.

Dates

During progress of

Survey

work in shops - -

while

During erection on

building

board vessel - - -

see accompanying report.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

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

This boiler has been constructed under Special Survey & is of good material & workmanship. It has been fitted on board at this Port.

Survey Fee

£ 2 : 2 : -

When applied for

14 OCT 1907

Travelling Expenses (if any)

£ 40 : 7 : 0

When received

15 OCT 1907

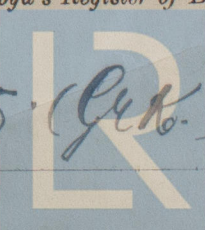
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Glasgow 14 OCT 1907

Assigned

See accompanying report No. 15205 (Glasgow)



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