

COPY

REPORT ON BOILERS.

No. 29210.

Received at London Office WED 24 AUG 1910

pt. 5a.

Date of writing Report

When handed in at Local Office

20/8/1910 Port of Glasgow

Description of Safe

No. in Survey held at

Renfrew

Date, First Survey 21st April

Last Survey 28th July 1910

Reg. Book.

on the

Water Tube Boilers No 159 for Vancouver Ferry Steamer

Tons }
Gross }
Net }

Master

Built at

By whom built

When built

Rivets

Engines made at

Glasgow

By whom made

Mekie & Baxter

when made 1910

Plates

Boilers made at

Renfrew

By whom made

Babcock & Wilcox. Ltd

when made 1910

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Stewarts & Lloyds. Ltd.

Letter for record

Total Heating Surface of Boilers

2808 sq ft

Is forced draft fitted

No. and Description of

Boilers

Two Water Tube

Working Pressure

175 lbs

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

Safety valves to each boiler

2 Spring loaded

Area of each valve

5.94 sq in

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

Mean dia. of

3' 0" Length 11' 4 1/2"

Material of plates

Steel

Thickness

7/16"

Range of tensile strength

24/28 tons

Are the shell plates welded or flanged

No

Description of riveting: cir. seams

D.R lap

long. seams

DBS DR

Diameter of rivet holes in long. seams

23/32"

Pitch of rivets

3 1/2"

Width of butt straps

8"

Per centages of strength of longitudinal joint

81.6

Working pressure of shell by

No. of plates

242

Size of manhole in shell

15" x 11"

Size of compensating ring

Flanged

No. and Description of Furnaces in each

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

Material

Steel

Thickness

Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Back

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at

Smallest part

Area supported by each stay

Working pressure by rules

End plates in steam

Material

Steel

Thickness

7/8 dia

Pitch of stays

How are stays secured

Working pressure by rules

233

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

1 3/16"

Pitch of tubes

Material

of tube plates

Thickness: Front

17/32"

Back

17/32"

Mean pitch of stays

Pitch across wide

Water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

Order at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest: how connected to boiler

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

Plates

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

Survey request form No 414 attached

The foregoing is a correct description,

Babcock & Wilcox Limited

Signed

Manufacturer.

Dates

During progress of

1910

April 21 May 9

Is the approved plan of boiler forwarded herewith

Yes

Survey while

During erection on

July 8. 11. 28.

Total No. of visits

5

Building

board vessel

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

These boilers have been constructed under special survey in accordance with the rules and approved plans enclosed. The steam drums and sections of headers and tubes have been tested by hydraulic pressure to 350 lbs. Materials & workmanship are good. These boilers are being shipped to Vancouver in pieces.

Survey Fee

£ 9.7

When applied for

Monthly

19

(Signed)

Travelling Expenses (if any) £

When received

19

Harry Clarke

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

Committee's Minute

TUE. JUL. 25. 1911

Signed



Lloyd's Register Foundation

W 1545-0098