

SAT. 10 NOV 1896

# REPORT ON BOILERS.

No. 24599

(1111 8937)

Port of Glasgow

Received at London Office

Glasgow

Date, first Survey 10 Aug

Last Survey 28 Sept 1906

Survey held at

Book.

on the

S.S. "CHANTICLEER."

Gross 143.42  
Net 64.98

Built at

Wall

By whom built

Wm. Wilson & Gemmell

When built 1894

made at

Wall

By whom made

G.B. Wilson & Co.

when made 1894

made at

Glasgow

By whom made

J. Neilson & Son (1853)

when made 1906

rated Horse Power

45

Owners

Chant & Padden

Port belonging to Plymouth

LTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Stewarts & Lloyds Ltd.

Total Heating Surface of Boilers 940 sq. ft

No. and Description of

One single ended

Working Pressure 160

Tested by hydraulic pressure to 320

Date of test 28/9/06

of Certificate 8338

Can each boiler be worked separately

✓

Area of fire grate in each boiler

33 1/3 sq. ft.

No. and Description of

valves to each boiler

Two, spring loaded

Area of each valve

440 sq. in.

Pressure to which they are adjusted

they fitted with easing gear

yes

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

least distance between boilers or uptakes and bunkers or woodwork

about 8"

Mean dia. of boilers

11" 0"

Length 9' 6"

Material of shell plates

steel

Thickness

27/32"

Range of tensile strength 28 to 32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

treble

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

6 3/4"

of plates or width of butt straps

14 1/2"

Per centages of strength of longitudinal joint

plate

86.1

Working pressure of shell by

Size of manhole in shell

16" x 12"

Size of compensating ring

7" x 27/32"

No. and Description of Furnaces in each

Plain

Material steel

Outside diameter 41"

Length of plain part

top 5' 10"

bottom 5' 8"

Thickness of plates

crown 4 3/8"

bottom 6 1/4"

Description of longitudinal joint

welded

No. of strengthening rings

1 part

Working pressure of furnace by the rules

168

Combustion chamber

Material steel

Thickness: Sides

9/16"

Back 9/16"

Top 9/16"

Bottom 9/16"

Pitch of stays to ditto: Sides

8 1/2" x 7 3/4"

Back 8" x 8"

Area

Diameter at

area

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

165

Material of stays

iron

Diameter at

area

Working pressure of shell by rules

165

End plates in steam space: Material

steel

Thickness

7/8"

Area supported by each stay

66 sq. in.

Working pressure by rules

165

Material of stays

steel

Diameter at smallest part

3.43"

Area

Working pressure by rules

163

Material of stays

steel

Diameter at smallest part

Area supported by each stay

210 sq. in.

Working pressure by rules

162

Material of Front plates at bottom

steel

Thickness

1/16"

Material of

Working pressure of plate by rules

191

Diameter of tubes

3 1/4"

Lower back plate

steel

Thickness

5/8"

Greatest pitch of stays

12 1/2" x 8"

Working pressure of plate by rules

191

Diameter of tubes

3 1/4"

Pitch across wide

Mean pitch of stays

8 7/8"

Pitch across wide

Pitch of tubes

4 3/8" x 4 1/2"

Material of tube plates

steel

Thickness: Front

11/16"

Back 5/8"

Mean pitch of stays

8 7/8"

Pitch across wide

Mean pitch of stays

8 7/8"

Pitch across wide

Pitch across wide

Water spaces

13 1/4"

Working pressures by rules

180 lbs.

Girders to

Chamber tops: Material

steel

Depth and thickness of

Working pressure by rules

163

Superheater or Steam chest: how connected to boiler

none

Can the superheater be shut off and the boiler worked

separately

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Thickness

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

Working pressure of shell by rules

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

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

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Working pressure of end plates

Area of safety valves to superheater

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of safety valves

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Lap of plating

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

Thickness of shell crown plates

Radius of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

plates

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits

1906: Aug 10 Sep 3. 6. 27. 28.

Alta. Oct 9. 12. 14. 19. (4)

Is the approved plan of main boiler forwarded herewith

yes

" " " donkey " " "

Lloyd's Register Foundation

ASIN 32-0096



GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This boiler has been constructed under Special Survey, & the materials & workmanship are of good quality.  
To be fitted on board at Aberdeen.

This boiler has now been properly fitted on board, tried under steam, and found satisfactory, and Safety valves adjusted to working pressure. See Abn report N° 8954.

Ridley Stowell.

Certificate (if required) to be sent to  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	3	3	8 NOV 1906
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	7.12.1906

Committee's Minute TUES. NOV 13 1906

Assigned

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



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