

REPORT ON BOILERS.

No. 18586

FRI. DEC 28 1906

Port of *Hull*

Received at London Office

No. in Survey held at *Hull*
Reg. Book.

Date, first Survey *April 9th*

Last Survey *27th Dec* 1906

(Number of Visits)

Tons } Gross
Net

5 Tuff on the

Steel Se. Sr. Lebu

Master

Built at *Hull*

By whom built *Messrs Charles C. Ld* When built *1906*

Engines made at

Hull

By whom made *Messrs Charles C. Ld*

when made *1906*

Boilers made at

Hull

By whom made *Messrs Charles C. Ld*

when made *1906*

Registered Horse Power

270

Owners *Compania Sud-Americana de Vapores*

Port belonging to *Valparaiso*

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel

Heiden Berg Works, and Hatten Vacon, Heide, Germany

Letter for record *8*

Total Heating Surface of Boilers *780*

Is forced draft fitted *No*

No. and Description of

Boilers *One Cyl. Multi*

Working Pressure *100 lbs* Tested by hydraulic pressure to *200 lbs* Date of test *30-10-06*

No. of Certificate *1521*

Can each boiler be worked separately

Area of fire grate in each boiler *24 sq*

No. and Description of

Safety valves to each boiler

Two Spring

Area of each valve *4.9 sq*

Pressure to which they are adjusted *100 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*

Smallest distance between boilers or uptakes and bunkers or woodwork

14 1/2"

Mean dia. of boilers *11'-0"*

Length *8'-6"*

Material of shell plates

Steel

Thickness *5/8"*

Range of tensile strength *28-32*

Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams

L. S.

long. seams

D. S. D. R.

Diameter of rivet holes in long. seams *7/8"*

Pitch of rivets *3 1/2"*

Top of plates or width of butt straps

9 1/2"

Per centages of strength of longitudinal joint

76.16

Working pressure of shell by

Rules *100 lbs*

Size of manhole in shell *16" x 12"*

Size of compensating ring *30" x 28" x 5/8"*

No. and Description of Furnaces in each

Boiler *Two plain*

Material *Steel*

Outside diameter *3'-3 1/2"*

Length of plain part

5'-0"

Thickness of plates crown *9/16"*

Description of longitudinal joint

Welded

No. of strengthening rings *0*

Working pressure of furnace by the rules *138 lbs*

Combustion chamber

Plates: Material

Steel

Thickness: Sides

9/16"

Back

9/16"

Top

9/16"

Bottom

9/16"

Pitch of stays to ditto: Sides *10'-4 1/2"*

Back *11'-9 1/2"*

Top *11'-8 1/2"*

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules *103 lbs*

Material of stays *Steel*

Diameter at

Smallest part *1 3/8" x 1 1/2"*

Area supported by each stay *104 sq*

Working pressure by rules *113 lbs*

End plates in steam space: Material *Steel* Thickness *3/4"*

Pitch of stays *16" x 15"*

How are stays secured

Nuts

Working pressure by rules *104 lbs*

Material of stays *Steel*

Diameter at smallest part *2.65"*

Area supported by each stay *240 sq*

Working pressure by rules *110 lbs*

Material of Front plates at bottom

Steel

Thickness

23/32"

Material of

Lower back plate

Steel

Thickness

23/32"

Greatest pitch of stays

14"

Working pressure of plate by rules *124 lbs*

Diameter of tubes *3 1/2"*

Pitch of tubes *4 1/4" x 4 1/2"*

Material of tube plates

Steel

Thickness: Front

23/32"

Back

23/32"

Mean pitch of stays

9 5/8"

Pitch across wide

Water spaces

13 1/2"

Working pressures by rules

101 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

Order at centre

6 1/2" x 1 1/2"

Length as per rule

2'-0 1/2"

Distance apart

11"

Number and pitch of Stays in each

Two

8 1/2"

Working pressure by rules *142 lbs*

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

Boles

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

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

Top 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,

F. J. Dalshope

Manufacturer.

Dates

During progress of

work in shops - -

Survey while

board vessel - - -

Building

Total No. of visits

See First Entry Report.

Is the approved plan of main boiler forwarded herewith

" donkey "

" "

" "

GENERAL REMARKS

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

This boiler has been built under special survey in accordance with the Rules. The materials and workmanship are good, it was tested by hydraulic pressure, placed on board, and tested under steam and found satisfactory. It is eligible in my opinion for record in Register Book, as per other part of Report.

Shells

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 ...	£	:	:	19...
Donkey Boiler Fee ...	£	:	:	When received.
Travelling Expenses (if any) £	:	:	:	19...

Committee's Minute

TUES. JAN 1 1907

Assigned

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



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Foundation