

## REPORT ON BOILERS.

No. 11706.

18519

WED. NOV 21 1906

Port of *Lith*

Received at London Office

No. in Survey held at *Lithmouth*Date, first Survey *19<sup>th</sup> July 1906*Last Survey *Sept 14<sup>th</sup> 1906*

Reg. Book.

*1* *Supp* on the *Smoking Buhr No 272 for 40th SBC of 90. Oceania*Master *Goole* Built at *Goole* By whom built *Goole S. B. - B. 67* When built *1906*Engines made at *Lithmouth* By whom made *G. Black & Sons* when made *1906*Boilers made at *Lithmouth* By whom made *G. Black & Sons* when made *1906*Registered Horse Power *La Navegacion a vapor Nicolas* Port belonging to *Buenos Ayres*MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *C. W. M. H. Co.*(Letter for record *5*) Total Heating Surface of Boilers *404* Is forced draft fitted *no* No. and Description ofBoilers *One single tank* Working Pressure *120 lbs* Tested by hydraulic pressure to *240 lbs* Date of test *14/9/06*No. of Certificate *608* Can each boiler be worked separately *no* Area of fire grate in each boiler *16* No. and Description ofsafety valves to each boiler *Two Spring* Area of each valve *3.14* Pressure to which they are adjusted *120 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 *10"* Mean dia. of boilers *7'-6"* Length *8'-6"*Material of shell plates *5* Thickness *3/8* Range of tensile strength *27-32* Are the shell plates welded or flanged *no*Descrip. of riveting: cir. seams *lap single* long. seams *lap double* Diameter of rivet holes in long. seams *1"* Pitch of rivets *3 1/2*Lap of plates *on width of butt straps* Per centages of strength of longitudinal joint *77* Working pressure of shell byrules *124* Size of manhole in shell *12 x 16* Size of compensating ring *6 x 5/8* No. and Description of Furnaces in eachboiler *1 Plain* Material *5* Outside diameter *40"* Length of plain part *6'-0"* Thickness of plates *3/4*Description of longitudinal joint *Welded* No. of strengthening rings *1* Working pressure of furnace by the rules *120* Combustion chamberplates: Material *5* Thickness: Sides *3/4* Back *3/2* Top *3/4* Bottom *3/4* Pitch of stays to ditto: Sides *9 3/4* Back *9 1/2 x 9 3/4*Top *9* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *121* Material of stays *5* Diameter atsmallest part *1.48"* Area supported by each stay *90"* Working pressure by rules *131* End plates in steam space: Material *5* Thickness *3/4*Pitch of stays *16 x 13* How are stays secured *by nuts* Working pressure by rules *257* Material of stays *5* Diameter at smallest part *3.26"*Area supported by each stay *112* Working pressure by rules *127* Material of Front plates at bottom *5* Thickness *3/4* Material ofLower back plate *5* Thickness *3/4* Greatest pitch of stays *9 3/4* Working pressure of plate by rules *204* Diameter of tubes *3"*Pitch of tubes *4 1/2* Material of tube plates *5* Thickness: Front *3/4* Back *3/4* Mean pitch of stays *8 1/4* Pitch across widewater spaces *11"* Working pressures by rules *166* Girders to Chamber tops: Material *5* Depth and thickness ofgirder at centre *6 x 1 1/2* Length as per rule *20"* Distance apart *9"* Number and pitch of Stays in each *1. 9"*Working pressure by rules *124* Superheater or Steam chest, how connected to boiler *no* Can the superheater be shut off and the boiler workedseparately *yes* Diameter *no* Length *no* Thickness of shell plates *yes* Material *no* Description of longitudinal joint *no* Diam. of rivetholes *yes* Pitch of rivets *yes* Working pressure of shell by rules *no* Diameter of flue *yes* Material of flue plates *no* Thickness *no*If stiffened with rings *yes* Distance between rings *yes* Working pressure by rules *no* End plates: Thickness *no* How stayed *no*Working pressure of end plates *yes* Area of safety valves to superheater *yes* Are they fitted with easing gear *no*

## VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to 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 Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description,

*Geo. Black & Sons* Manufacturer.

Dates of Survey while building

During progress of work in shops - - *1906 July 19, Aug 20, Sept 14.*

During erection on board vessel - - *Hull - Sep 11, 25 Oct 8, Nov 6, 7, 9.*

Total No. of visits *3.*

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " "

W15416-0010



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

This boiler has been built under Special Survey, the materials and workmanship are sound and good and on completion it was tested by hydraulic pressure to twice the working pressure with satisfactory results.

This boiler has been fitted and secured in an Iron Deck House on the Bkr. Oceania, tested under steam and safety valves adjusted to 124 lbs per sq. inch. Feed donkey pump, and injector tried and found satisfactory, and the vessel is eligible in my opinion to have the record of *N.D.B. 11.06* in the Register Book.

James Barclay

It is submitted that  
this vessel is eligible for  
THE RECORD

H.D.B. 11.06.

Inc.

21.11.06.

J.E.S.  
21.11.06

Certificate (if required) to be sent to.

The amount of Entry Fee...	£	:	:	When applied for.
Special ...	£	2	2	26 <sup>th</sup> Sept. 06.
Donkey Boiler Fee ...	£	:	:	received. Lon.
Travelling Expenses (if any) £	:	:	16	19/11/1906

G. A. H. K. R.  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute  
Assigned

FRI. NOV 23 1906



© 2020  
Lloyd's Register  
Foundation