

Rpt. 5b,

## REPORT ON BOILERS.

No. 5719 Complement

SAT. 24 APR 1909

Received at London Office

Date of writing Report 21<sup>st</sup> April 09 When handed in at Local Office

19 Port of Bilbao

No. in Survey held at  
Reg. Book. 56 on the

Bilbao

Date, First Survey 16<sup>th</sup> AprilLast Survey 20<sup>th</sup> April 1909

(Number of Visits Four)

Gross 2246

Tons Net 1506

Master J. Ibargaray Built at Middlesbrough

By whom built R. Dixon &amp; Co

When built 1882-12

Boiler made at Stockton

By whom made James Thos Ludlow & Co Ltd (N<sup>o</sup> 2494)

When made 1909

Owners Ybarra &amp; Co

Port belonging to Seville

## VERTICAL DONKEY BOILER

No. ✓

Description ✓

Manufacturers of steel ✓

Made at ✓

By whom made ✓

When made ✓

Where fixed ✓

For end of boiler Working pressure

tested by hydraulic pressure to ✓

Date of test ✓

No. of Certificate ✓

Fire grate area ✓

Description of safety valves ✓

Direct spring

No. of safety valves 2

Area of each 4.908

Pressure to which they are adjusted 100 lbs

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 ✓

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

During progress of

of Survey

work in shops - -

while

During erection on

building

board vessel - -

Total No. of visits

1909:- April 16, 17, 19, 20

Four

Is the approved plan of boiler forwarded herewith ✓

## GENERAL REMARKS

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

This donkey boiler has now been placed on board, in the fore end of the boiler, all the mountings & pipe connections have been made & tested under steam pressure, & were found to be entirely satisfactory. Safety valves have now been adjusted under steam pressure to 100 lbs.

I recommend that the notation NDB-09 be made in the Register book

Survey Fee ... £ 4 : 0 :

When applied for, 19

Travelling Expenses (if any) £ 0 : 5 :

When received, 21 April 1909

Committee's Minute TUES. 27 APR 1909

Assigned

NDB 09

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

G. de Harens  
Ignacio de Antequera  
Francisco de Antequera

Lloyd's Register  
Foundation

W469-0330

OF THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.

(The Surveyor is requested not to write on or below the space for Committee's Minute.)



New Donkey Boiler now fitted on board

It is submitted that  
this vessel is eligible for  
THE RECORD. NDB. 09-100 lbs

It is submitted that  
this vessel is eligible to  
remain as GLASSED,  
without special  
restrictions.

MR  
24-4-09  
H.D.  
24/4/09



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