

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

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 _____ Date of adjustment _____

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 _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— Two each top and bottom end bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set each air circulating feed and bilge pump valves and check valves, one propeller and a quantity of assorted bolts nuts etc

The foregoing is a correct description,

F. J. Parker Manufacturer.

Dates of Survey while building

During progress of work in shops - -	1910. July 6. 18. 20. 24. 28. 31. 1. 4. 7. 8. 14. 17. 24. 28. 31. 2. 9. 14. 17. 18. 22. 31. 2. 27. 4. 7.
	During erection on board vessel - -
	Total No. of visits

Hull: - Apr 9. 14. 16. 20. 30. May 3.
 Mar. 17. Hull. 6 = 23

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 14.2.10 Slides 14.2.10 Covers 14.2.10 Pistons 17.2.10 Rods 31.1.10

Connecting rods 31.1.10 Crank shaft 17.2.10 Thrust shaft On C-shaft Tunnel shafts 17.3.10 Screw shaft 17.3.10 Propeller 14.3.10

Stern tube 9.3.10 Steam pipes tested 20.4.19.10 Engine and boiler seatings 9.4.10 Engines holding down bolts 30.4.10

Completion of pumping arrangements 3.5.10 Boilers fixed 30.4.10 Engines tried under steam 3.5.10

Main boiler safety valves adjusted 30.4.10 Thickness of adjusting washers $\frac{28}{32} \times \frac{27}{32}$

Material of Crank shaft Eng Steel Identification Mark on Do. 37 Material of Thrust shaft on C-shaft Identification Mark on Do. ✓

Material of Tunnel shafts Iron Identification Marks on Do. 6556 Material of Screw shafts Iron Identification Marks on Do. 6556

Material of Steam Pipes Solid drawn Copper Test pressure 240 lbs per sq inch ✓

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

To complete the survey the engines and boiler require to be satisfactorily fitted on board and examined under steam, and the spare gear supplied and examined. It is stated that this will be done at Hull

The engines have been built under special survey. The materials and workmanship are good and render the vessel eligible, in my opinion to have the notation of $\frac{1}{2}$ LMC - with a date, when the survey has been completed. The engines and boiler have been satisfactorily fitted on board, and tried under steam, and found in order. Spare gear supplied as above. This vessel is now eligible in my opinion to be classed with the notation of $\frac{1}{2}$ L.M.C. 5.10 in the Register Book.

James Barclay

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.10.

J.W.D. 10/5/10 J.P.R.

Wm Morrison

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

The amount of Entry Fee. . . 1-0-0 When applied for, _____

Special Sur. Indt. 2-19-0 13. 4. 1910

Donkey Boiler Fee Hull 2-19-0

Travelling Expenses (if any) £ ✓ : : When received, 6.6.10

Committee's Minute Assigned + L.M.C. 5.10. FRI. 13 MAY 1910

Middlesbrough Office

Certificate (if required) to be sent to or below the space for Committee's Minute.

