





# 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 \_\_\_\_\_ Radius of do. \_\_\_\_\_ Stayed by \_\_\_\_\_

Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_ Dates of survey \_\_\_\_\_

SPARE GEAR. State the articles supplied:— *Two sets of open bottom and connecting rod bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set each of side & bilge pump valves, iron of various sizes, a quantity of assorted bolts, nuts etc.*

The foregoing is a correct description,

*Arthur Holmes* Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1912 - Nov 14, Dec. 6, 10, 16, 17, 18, 24, 30, 1913 - Jan. 8, 10, 14, 17, 22, 23, 30, Feb. 5, 14, 17, 21, 25, 27, 28  
During erection on board vessel -- Mar 1, 7  
Total No. of visits 25

Is the approved plan of main boiler forwarded herewith *R/L No 25908*

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 1.1.13 Slides 5.2.13 Covers 10.1.13 Pistons 5.2.13 Rods 30.1.13  
Connecting rods 30.1.13 Crank shaft 18.12.12 Thrust shaft 10.1.13 Tunnel shafts ✓ Screw shaft 6.12.12 Propeller 6.12.12  
Stern tube 6.12.12 Steam pipes tested 21.2.13 Engine and boiler seatings 16.12.12 Engines holding down bolts 14.2.13  
Completion of pumping arrangements 1.3.13 Boilers fixed 27.2.13 Engines tried under steam 24.2.13  
Main boiler safety valves adjusted 24.2.13 Thickness of adjusting washers *Found 1/16" & 1/8"*  
Material of Crank shaft *Steel* Identification Mark on Do. *Nº 9876D* Material of Thrust shaft *Steel* Identification Mark on Do. *Nº 9876D*  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Iron* Identification Marks on Do. *Nº 9876D*  
Material of Steam Pipes *Solid drawn copper* ✓ Test pressure *400 lbs per sq inch hydraulic*

General Remarks (State quality of workmanship, opinions as to class, &c. *The engine & boiler of this vessel have been constructed under special survey in accordance with the Rules. The materials & workmanship are sound & good. The boiler tested by hydraulic pressure & with the engine secured on board & tested under steam they are now in good order & safe working condition & respectfully submitted as being eligible in my opinion to be classed with the notation of 'L.M.C. 3.13' in the Register Book.*

*It is submitted that this vessel is eligible for THE BROOD. + L.M.C. 3.13.*

*J.W.D.*  
*20/3/13*

The amount of Entry Fee .. £ 1 : 0 :  
Special .. £ 12 : 9 :  
Donkey Boiler Fee .. £ : :  
Travelling Expenses (if any) £ : 8/2 :

When applied for, 17.3.13

When received, 31/3/13

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

Committee's Minute

THU. MAR. 20 1913

Assigned

*+ L.M.C. 3.13*



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Hull

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