

Received at London Office

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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:— 1 Tail shaft. One section crank shaft 1 set of springs for safety valves.  
1 C.I. propeller, 2 bottom end bolts, 2 top end bolts. 2 M.B. bolts. 1 set connecting bolts. 1 set feed & bilge pump valves & gauge glass.  
200 assorted bolts & nuts. 1 set check valves. 6 yll. cover bolts. 4 valve chest bolts. 3 bilge stay tubes. 12 plain tubes. 24 condenser tubes  
50 ferrules 3 link choppers 6 piston bolts & nuts. 2 plates iron 6 bars iron 1 set of fire bars 1 set of piston springs  
The foregoing is a correct description,

Manufacturer.

Dates of Survey while building  
During progress of work in shops -- 1917 Jan. 31. Feb. 16. Mar. 13. 19. 20. 22. April 7. 12. 16. 20. 25. 27. May 5. 7. 15. 19. June 3. Aug. 28. Sept. 14. Oct. 30. Nov. 9. 16.  
During erection on board vessel -- Aug. 5. 7. 9. 13. 17. 18. 21. 24. 26  
Total No. of visits 72.

Is the approved plan of main boiler forwarded herewith No

" " " donkey " " " No.

Dates of Examination of principal parts—Cylinders 5-5-17 Slides 8-5-18 Covers 8-4-18 Pistons 10-4-18 Rods 10-4-18

Connecting rods 7-1-18 Crank shaft 13-12-17 Thrust shaft 2-1-18 Tunnel shafts 4-2-18 Screw shaft 10-1-18 Propeller 10-1-18

Stern tube 25-7-18 Steam pipes tested 13-8-18 Engine and boiler seatings 9-8-18 Engines holding down bolts 17-8-18

Completion of pumping arrangements 24-8-18 Boilers fixed 9-8-18 Engines tried under steam 18-8-18

Main boiler safety valves adjusted Aug. 18. 1918. Thickness of adjusting washers Stern 1 1/2" P 1/2" S 1/2" Port 1 1/2" P 5/8" S 1 1/2"

Material of Crank shaft S Identification Mark on Do. 2-8-17 Material of Thrust shaft S Identification Mark on Do. 21-5-17

Material of Tunnel shafts S Identification Marks on Do. 1-2-17 Material of Screw shafts S Identification Marks on Do. 1-2-17

Material of Steam Pipes S Test pressure 540 lbs per sq in

General Remarks (State quality of workmanship, opinions as to class, &c.) The engines and boilers of this vessel have been constructed under Special Survey and in accordance with the rules. The materials and workmanship are good. The machinery has been efficiently fitted on board & has been tried under steam together with the auxiliary machinery and found to be working satisfactorily. The safety valves have been adjusted under steam & blow at a pressure of 185 lbs per sq in. The boilers are of good workmanship and the material has been tested in accordance with the rules. They were tested to a water pressure of 360 lbs per sq in and found tight. In my opinion the Machinery of this vessel is now in good and efficient condition and is eligible in my opinion to be classed in the Register Book and to have the Notation LMC 8-1. The joints of the liner on the tail shaft to be examined when shaft is drawn.

This Machinery is a duplicate of that in the S. It is permitted that this vessel is eligible for THE RECORD. + LMC 8. 18

SUBJECT TO THE SCREW SHAFT BEING SPECIALLY EXAMINED EVERY TWO YEARS

The amount of Entry Fee .. £ 15.00 : When applied for.  
Special .. £ 183.25 : Aug. 29. 1918.  
Donkey Boiler Fee .. £ :  
Travelling Expenses (if any) £ 13.25 : When received.

H. J. Alderson & Co. Surveyors  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

FRI. 25 OCT. 1918

Committee's Minute

Assigned

MACHINERY CERTIFICATE

15/10/18



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