

WED. JUN. 23, 1915

Nom. Horse Power as per Section 28. 285 ✓ Is Refrigerating Machinery fitted for cargo purposes h ✓ Is Electric Light fitted h ✓

Working pressure of end plates ..... Area of safety valves to superheater ..... Are they fitted with easing gear .....

© 2021  
Diam. of rice  
Thickness  
ayed  
Lloyd's Register  
Foundation  
W906 0052

# VERTICAL DONKEY BOILER—Manufacturers of Steel

No. \_\_\_\_\_ Description *As per Report attached hereto ✓*

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:— *The top end bolts. The bottom end bolts. The main bearing bolts. One set coupling bolts. One set main pump valves. One set bilge pump valves. One set main check valves. One set donkey check valves. One set safety valve springs. 12 link ring chain. Both ends. ✓*

The foregoing is a correct description,  
**RANKIN & BLACKMORE, LTD.,**  
*H. J. Rankin* Manufacturer.  
 Director.

Dates of Survey while building { During progress of work in shops -- 1914. May 19-22 June 10-19-25-29 Aug. 3-10-17-21-25 Sep. 1-5-10-21-30 Oct. 2-7-15-21-23-27-30 Nov. 4-6-10-13-17-25-30  
 During erection on board vessel --- Mar. 22-26-31-Apr. 5-8-14-15-20-22-28 May 3-5-7-14-18-25-27-28 June 1-2-3-7-9-19  
 Total No. of visits *48* Is the approved plan of main boiler forwarded herewith *yes ✓*  
 " " " donkey " " " *yes ✓*

**Dates of Examination of principal parts**—Cylinders *18/12/14* Slides *22/1/15* Covers *5/4/15* Pistons *5/4/15* Rods *18/12/14*  
 Connecting rods *22/1/15* Crank shaft *25/2/15* Thrust shaft *5/3/15* Tunnel shafts *22/1/15* Screw shaft *5/3/15* Propeller *5/4/15*  
 Stern tube *10/3/15* Steam pipes tested *27/5/15* Engine and boiler seatings *11/3/15* Engines holding down bolts *4/6/15*  
 Completion of pumping arrangements *15/6/15* Boilers fixed *25/5/15* Engines tried under steam *18/6/15*  
 Main boiler safety valves adjusted *15/6/15* Thickness of adjusting washers *P 3/16 S 9/32 P 1/2 S 7/16*  
 Material of Crank shaft *Steel* Identification Mark on Do. *1366* Material of Thrust shaft *Steel* Identification Mark on Do. *148*  
 Material of Tunnel shafts *Steel* Identification Marks on Do. *148* Material of Screw shafts *Steel* Identification Marks on Do. *148*  
 Material of Steam Pipes *Iron ✓* Test pressure *600 lb. ✓*

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

*The Machinery and Boilers of this Steamer have been constructed under Special Survey and placed on board in accordance with The Society's Rules. They are now in our opinion in safe working condition and the case is respectfully submitted for the Notification + L.M.C. 6. 15. in The Register Book.*

*It is submitted that this vessel is eligible for THE RECORD + L.M.C. 6. 15.*

The amount of Entry Fee .. £ *2 : 0* : When applied for, *21-6-1915*  
 Special .. £ *34 : 5* :  
 Donkey Boiler Fee .. £ : : When received, *22-6-1915*  
 Travelling Expenses (if any) £ : :

Committee's Minute

Assigned *+ L.M.C. 6. 15*

**GLASGOW 22 JUN. 1915**  
 MACHINERY CERTIFICATE  
 DATED 23-6-15



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Lloyd's Register Foundation

Certificate (if required) to be sent to the Registrar of Shipping.

22/6/15