

Received at London Office JAN 13 JAN 19 1906

Is it fitted with a watertight door worked from

BOILERS, &c.— (Letter for record (S) Total Heating Surface of Boilers 1250 sq. ft. Is forced draft fitted No

No. and Description of Boilers One L. E. by O. Muller Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs

Date of test 12.12.06 Can each boiler be worked separately ☒ Area of fire grate in each boiler 43 sq. ft. No. and Description of safety valves to each boiler Two direct spring Area of each valve 4.9 Pressure to which they are adjusted 205 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 7 1/2 Mean dia. of boilers 12'-9" Length 10'-3 1/2" Material of shell plates Steel

Thickness 1/32 Range of tensile strength 28-32 Are they welded or flanged No Descrip. of riveting: cir. seams OR Lap long. seams BSR 5 Rivets

Diameter of rivet holes in long. seams 1/16 Pitch of rivets 8 1/8 Lap of plates or width of butt straps 17 1/2

Per centages of strength of longitudinal joint rivets 88.3 Working pressure of shell by rules 201 lbs Size of manhole in shell 16" x 12"

Size of compensating ring 3'-4" x 2'-6" x 1/32 No. and Description of Furnaces in each boiler Three plain Material Steel Outside diameter 3'-0"

Length of plain part top 6'-4" bottom 5'-10 1/4" Thickness of plates crown 3/4 bottom 3/4 Description of longitudinal joint welded No. of strengthening rings ✓

Working pressure of furnace by the rules 207 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/16 Back 1/16 Top 1/16 Bottom 1/16

Pitch of stays to ditto: Sides 8 1/2" x 8" Back 9 5/8" x 7 5/8" Top 8" x 7 1/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 217 lbs

Material of stays Steel Area at smallest part 1.76 Area supported by each stay 68 Working pressure by rules 207 lbs End plates in steam space: ✓

Material Steel Thickness 1/32 Pitch of stays 17" x 15" How are stays secured Nuts Working pressure by rules 209 lbs Material of stays Steel

Diameter at smallest part 2 7/16 Area supported by each stay 255 Working pressure by rules 203 lbs Material of Front plates at bottom Steel

Thickness 15/16 Material of Lower back plate Steel Thickness 2 3/8 + 3/4 Greatest pitch of stays 19" x 11 1/2" Working pressure of plate by rules 220 lbs

Diameter of tubes 3 1/4 Pitch of tubes 4 7/8" x 4 3/4" Material of tube plates Steel Thickness: Front 15/16 Back 13/16 Mean pitch of stays 9 3/4" x 9 1/2"

Pitch across wide water spaces 13 3/4 Working pressures by rules 202 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9 1/2" x 1 3/4 Length as per rule 2'-9 15/16 Distance apart 7 1/4 Number and pitch of Stays in each 3 @ 8"

Working pressure by rules 246 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately ☒ Diameter ☒ Length ☒ Thickness of shell plates ☒ Material ☒ Description of longitudinal joint ☒ Diam. of rivet holes ☒ Pitch of rivets ☒ Working pressure of shell by rules ☒ Diameter of flue ☒ Material of flue plates ☒ Thickness ☒

If stiffened with rings ☒ Distance between rings ☒ Working pressure by rules ☒ End plates: Thickness ☒ How stayed ☒

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



**DONKEY BOILER—** No. \_\_\_\_\_ Description \_\_\_\_\_ When made \_\_\_\_\_ Where fixed \_\_\_\_\_

Made at \_\_\_\_\_ By whom made \_\_\_\_\_

Working pressure \_\_\_\_\_ tested by hydraulic pressure to \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ Description of safety valves \_\_\_\_\_

No. of safety valves \_\_\_\_\_ Area of each \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ 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 \_\_\_\_\_ Rivets \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of Stays to do. \_\_\_\_\_

Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Plates \_\_\_\_\_ Thickness of furnace plates \_\_\_\_\_ Description of joint \_\_\_\_\_

Dia. of stays \_\_\_\_\_ Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Stayed by \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_

Working pressure of furnace by rules \_\_\_\_\_ Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_

**SPARE GEAR.** State the articles supplied: *Two top + two bottom-end connecting rod bolts + nuts. Two main bearing bolts + nuts. One set of coupling bolts + nuts. One set of feed + bilge pump valves. Main + donkey feed check valves. Assorted bolts + nuts &c.*

The foregoing is a correct description,  
**T. J. Palethorpe** Manufacturer.

**SECRETARY** 1905: - July 21. Sep. 5. 12. Oct. 2. 12. 20. 28. Nov. 6. 21. 28 Dec. 8. 18  
 Dec. 20. 22. 30 - 1906: - Jan 5

Dates During progress of work in shops - -  
 of Survey while erection on board vessel - -  
 building Total No. of visits *17*

Is the approved plan of main boiler forwarded herewith *yes*  
 " " " donkey " " " ✓

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

*The Engines and Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of +LMC 1, 06 in the Register Book.*

It is submitted that  
 this vessel is eligible for  
**THE RECORD** LMC 1.06

*22.1.06*  
*22.1.06*

The amount of Entry Fee. £ *1* : - : -  
 Special " " £ *11* : *11* : -  
 Donkey Boiler Fee " " £ - : - : -  
 Travelling Expenses (if any) £ - : - : -

When applied for, *9/11/06*  
 When received, *19/3/06*

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

Committee's Minute

TUES. 23 JAN 1906

Assigned

*+LMC 1.06*

MACHINERY CERTIFICATE



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Lloyd's Register  
 Foundation

*Null*

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