

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 each top & bottom end connecting rod bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts one set each for sludge pump valves, iron of various sizes, a quantity of assorted bolts & nuts etc.*

The foregoing is a correct description, **FOR AMOS & SMITH LTD.**

Manufacturer. *W. S. White*

Dates of Survey while building: During progress of work in shops - 1912. - Oct 29. Dec 2. 5. 10. 13. 16. 19. 23. 27. 29. 31. 1913. - Jan 6. 27. Feb 8. 12. 18. 20. 28. Mar 14. During erection on board vessel - - - Apr 12. 15. 22. 24. 28. May 5. 9. 22. 29. Jun 10. 18. 27. July 9. 12. 14. 16. 17. 21. 29. Aug 13. 21. 26. 29. Total No. of visits 43.

Managing Director. Is the approved plan of main boiler forwarded herewith *Rpt No. 26389 "Thuringia"*

Dates of Examination of principal parts—Cylinders *13.8.13.* Slides *13.8.13.* Covers *13.8.13.* Pistons *21.7.13.* Rods *21.7.13.* Connecting rods *21.7.13.* Crank shaft *21.7.13.* Thrust shaft *9.7.13.* Tunnel shafts ✓ Screw shaft *9.7.13.* Propeller *9.7.13.* Stern tube *9.7.13.* Steam pipes tested *15.9.13.* Engine and boiler seatings *17.7.13.* Engines holding down bolts *15.9.13.* Completion of pumping arrangements *15.9.13.* Boilers fixed *15.9.13.* Engines tried under steam *17.9.13.* Main boiler safety valves adjusted *17.9.13.* Thickness of adjusting washers *SV 1/2 PV 1/16.* Material of Crank shaft *S* Identification Mark on Do. *1166* Material of Thrust shaft *S* Identification Mark on Do. *1166* Material of Tunnel shafts ✓ Identification Marks on Do. Material of Screw shafts *S* Identification Marks on Do. *1166* Material of Steam Pipes *Solid drawn Copper* Test pressure *370 lbs.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The engines & boiler of this vessel have been constructed under special survey in accordance with the rules. The materials and workmanship are sound & good. The boiler tested by hydraulic procedure & with the engines secured on board & steamed under steam they are now in good & safe working condition & respectfully submitted as being eligible in my opinion to be classed with notation of +LMC 9.13. in the Register book.*

It is submitted that this vessel is eligible for **THE RECORD + LMC 9.13.**

J. S. Mackillop
7/10/13

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

The amount of Entry Fee .. £ 1 : : When applied for.
Special .. £ 13 : 7 : 6 *27.9.13*
Donkey Boiler Fee .. £ : : :
Travelling Expenses (if any) £ : 1 : : *30/9/13*

Committee's Minute **FRI OCT 3-1913**
Assigned *+ LMC 9.13*

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

