





# 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 top & two bottom end connecting rods & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of feed & high pump valves, one set of air pump valves, one main & one donkey feed check valve, assorted bolts & nuts.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1911: July 27, Aug 3, 5, 8, 14, Sep 5, 12, 21, 23, 26, Oct 3, 5, 9, 10, 13, 16, 20, 26, Nov 2, 4, 10, 11, 16, 17, 22, 25, 28, 30, Dec 11. Managing Director. Oct 10, 13, 16. During erection on board vessel -- 29. Total No. of visits 29.

Is the approved plan of main boiler forwarded herewith

yes

Dates of Examination of principal parts—Cylinders 4.11.11. Slides 11.11.11. Covers 4.11.11. Pistons 11.11.11. Rods 11.11.11. Connecting rods 26.10.11. Crank shaft 4.11.11. Thrust shaft 4.11.11. Tunnel shafts —. Screw shaft 23.9.11. Propeller 23.9.11. Stern tube 23.9.11. Steam pipes tested 25.11.11. Engine and boiler seatings 22.11.11. Engines holding down bolts 22.11.11. Completion of pumping arrangements 11.12.11. Boilers fixed 22.11.11. Engines tried under steam 30.11.11. Main boiler safety valves adjusted 30.11.11. Thickness of adjusting washers  $P\frac{3}{4} S\frac{3}{4}$ . Material of Crank shaft Steel Identification Mark on Do. 818 4.11.11. Material of Thrust shaft Steel Identification Mark on Do. 818 4.11.11. Material of Tunnel shafts — Identification Marks on Do. — Material of Screw shafts Iron Identification Marks on Do. 818 23.9.11. Material of Steam Pipes Solid drawn Copper Test pressure 400 lbs.

**General Remarks** (State quality of workmanship, opinions as to class, &c. The machinery & boiler of this vessel have been constructed under Special Survey and of good material & workmanship, have been fitted & secured in accordance with the Rules. They are now in good working condition & are respectfully submitted as being eligible in my opinion to have record of L.M.C. 12.11 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + LMC 12.11.

J.W.D. 30/11/11

J.W.D.

The amount of Entry Fee .. £ 1 : 00 When applied for. Special .. £ 8 : 00 28.12.1911. Donkey Boiler Fee .. £ : : When received, 30.12.1911. Travelling Expenses (if any) £ : 4 : 11.11.

Committee's Minute TUE. JAN. 2—1912

Assigned

done 12.11

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



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MACHINERY CERTIFICATE  
WRITTEN

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