

002079-002084-0010

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:— 2 connecting rod top end bolts & nuts, 2 connecting rod bottom end bolts & nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of feed & bridge pump valves, 1 set of piston springs, a quantity of assorted bolts & nuts, & iron of various sizes, and one propeller shaft.

The foregoing is a correct description,

FOR BARCLAY, CURLE & CO., LTD.

Manufacturer

Charles Randolph Smith

Director

Dates of Survey while building	During progress of work in shops—	1910 Mar 18 Apr 25 May 23 June 9 16 27 July 1 2 8 13 28 Aug 5 11 17 24 Sep 5 6 9 13
	During erection on board vessel—	15 17 20 21 27 Oct 4 6 10 11 13 18 21 25 28 31 Nov 2 7 8 9 10 11 12 14 18 19 17 18 21 22
	Total No. of visits	23 25 28 29 Dec 2 5 6 7 8 11 12 15 19 20 21 22 23 26 27 29 1911 Jan 10 16 17 21 24 26 30 31 Feb 6 7 8 9 13 15 16 20 21 24 28 Mar 2 6 10 16 24 27 31 Apr 1 6 7 13

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " " " " " " "

Yes

Dates of Examination of principal parts—Cylinders	30.9.10	Slides	4.10.10	Covers	30.9.10	Pistons	4.10.10	Rods	29.9.10
Connecting rods	29.9.10	Crank shaft	30.9.10	Thrust shaft	30.9.10	Tunnel shafts	25.10.10	Screw shaft	2.11.10
Stern tube	29.9.10	Steam pipes tested	28.2.11	Engine and boiler seatings	17.2.11	Engines holding down bolts	15.2.11		
Completion of pumping arrangements	20.2.11	Boilers fixed	2.3.11	Engines tried under steam	27.3.11				
Main boiler safety valves adjusted	6.3.11	Thickness of adjusting washers							
Material of Crank shaft	steel	Identification Mark on Do.	486	Material of Thrust shaft	steel	Identification Mark on Do.	486		
Material of Tunnel shafts	steel	Identification Marks on Do.	486	Material of Screw shafts	steel	Identification Marks on Do.	486		
Material of Steam Pipes	Wrought Iron	Test pressure	645 lbs. per sq. inch						

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

The machinery of this vessel has been constructed under special survey in accordance with the rules and approved plans, and has been seen working satisfactorily under steam. The materials and workmanship are good. This machinery is eligible, in my opinion, to be classed + L.M.C. 3. 11 4-11.

At the end of the 48 hours trial it was unfortunately found that the furnaces of the Star double ended main boiler were down. On examination the furnaces were found distorted as follows:— Port Port Wing 3 1/2" down on crown; Port Port Lower furnace 4 1/2" down on crown; and the Port Star Wing 3 1/2" down on crown; these three furnaces were removed and new ones fitted; the remaining five furnaces were found to be slightly down on the crowns and were jacked up to true form. On completion of the repairs the boiler was subjected to a test of 330 lbs. per sq. inch with satisfactory results.

The three replace furnaces are of the same type as the original furnaces (Horison's Suspension)

The amount of Entry Fee	£ 3	When applied for,	24/4/11
Special	£ 72	When received,	25/4/11
Donkey Boiler Fee	£		
Travelling Expenses (if any)	£		

Committee's Minute 2 5 APR. 1911

Assigned + L.M.C. 4. 11

7.D.

MACHINERY CERTIFICATE

WRITTEN

26/4/11

FD.

J.M.

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



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