



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 \_\_\_\_\_

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 \_\_\_\_\_ Stayed by \_\_\_\_\_

Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_ Dates of survey \_\_\_\_\_

SPARE GEAR. State the articles supplied:— Two top end bolts, two bottom end bolts, two main bearing bolts, 1 set of coupling bolts, a set of feed & discharge pump valves, and a quantity of assorted nuts, bolts, and iron.

JOHN STEWART & SON, LTD.

The foregoing is a correct description,

Manufacturer.

*J. F. Pollock*

Dates of Survey while building	During progress of work in shops - -	1907 Apr 2 3 4 5 7 9 10 11 13 16 18 19 23 25 27	Total No. of visits	29	
		During erection on board vessel - -			100 11 18 Jan 11 23 Feb 1 3 7 29 28
					Is the approved plan of main boiler forwarded herewith <i>with S.P. useful</i>

Dates of Examination of principal parts—Cylinders	2.9.07	Slides	5.9.07	Covers	3.9.07	Pistons	2.9.07	Rods	5.9.07
Connecting rods	5.9.07	Crank shaft	4.9.07	Thrust shaft	4.9.07	Tunnel shafts	✓	Screw shaft	7.2.08
Stern tube	7.2.08	Steam pipes tested	31.1.08	Engine and boiler seatings	1.00 13.00	Engines holding down bolts	11.11.07		
Completion of pumping arrangements	3.2.08	Boilers fixed	23.9.07	Engines tried under steam	28.2.08				
Main boiler safety valves adjusted	28.2.08	Thickness of adjusting washers	3/8"						
Material of Crank shaft	Steel	Identification Mark on Do.	S	Material of Thrust shaft	Steel	Identification Mark on Do.	S		
Material of Tunnel shafts	✓	Identification Marks on Do.		Material of Screw shafts	Steel	Identification Marks on Do.	S		
Material of Steam Pipes	Copper	Test pressure	280lb.						

General Remarks (State quality of workmanship, opinions as to class, &c. This vessel's Machinery has been built under Special Survey and in accordance with the Rules. The workmanship is good and in my opinion the vessel is eligible for the record L.M.C. 2.08.

Note. The Boiler was made for 150lb. working pressure but owing to the diameter of the flapping the pressure has been reduced to 140lb.

It is submitted that this vessel is eligible for THE RECORD. L.M.C. 2.08.

*J.P. 23.3.08*

*J.S.*  
23.3.08

The amount of Entry Fee..	£ 1 : 0 : 0	When applied for,
Special .. .. .	£ 3 : 16 : 0	21.3.08
Donkey Boiler Fee .. .	£ 4 : 4 : 0	
Travelling Expenses (if any) £	:	When received, 14.4.08 paid 31.3.08

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

Committee's Minute  
Assigned  
+ L.M.C. 2.08

1UES 24 MAR 1908

MACHINERY CERTIFICATE WRITTEN



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