

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		Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:— *2 top end & 2 bottom end bolts & nuts, 2 main bearing bolts, 1 set coupling bolts, 1 set of feed & bilge pump valves, 1 set of piston springs, assorted bolts & nuts & assorted iron, 1 spare propeller shaft monkey*
2 donkey pump valves and a number of condenser & boiler tubes.

The foregoing is a correct description,

J. Pennington & Sons Manufacturer of Engines

Dates of Survey while building	During progress of work in shops - -	1909 Sep. 7-13-15-24-30 Oct. 11-15-20-27-30 Nov. 2-8-12-19-25-26-30	Is the approved plan of main boiler forwarded herewith	Yes
	During erection on board vessel - -			Yes
	Total No. of visits			17

Dates of Examination of principal parts—Cylinders *24/9/09* Slides *24/9/09* Covers *24/9/09* Pistons *24/9/09* Rods *30/9/09*
 Connecting rods *30/9/09* Crank shaft *20-27/10/09* Thrust shaft *20-27/10/09* Tunnel shafts *20-27/10/09* Screw shaft *20-27/10/09* Propeller *30/9/09*
 Stern tube *12/11/09* Steam pipes tested Engine and boiler seatings *19/11/09* Engines holding down bolts *30/11/09*
 Completion of pumping arrangements *30/11/09* Boilers fixed *19/11/09* Engines tried under steam *30/11/09*
 Main boiler safety valves adjusted *30/11/09* Thickness of adjusting washers *Pat 9/32" Std 1/32"*
 Material of Crank shaft *Steel* Identification Mark on Do. *2345N AFC* Material of Thrust shaft *Iron* Identification Mark on Do. *6905N W.C.*
 Material of Tunnel shafts *Iron* Identification Marks on Do. *6905 W.C.* Material of Screw shafts *Iron* Identification Marks on Do. *6793N 2/11/09 c/c*
 Material of Steam Pipes *Seamless copper 19,259 26/11/09* Test pressure *360 lbs*

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

The above engines have been built under special survey the materials are good, and the workmanship satisfactory & in my opinion is eligible to have the notation + L.M.C. 11,09.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 11,09

J.R.M. 3/12/09

J.R.M.

The amount of Entry Fee..	£ 2 : 0 : 0	When applied for,	2 - DEC 1909
Special	£ 15 : 18 : 0	When received,	4 - 12 - 09
Donkey Boiler Fee	£ : : 0		
Travelling Expenses (if any) £	: : 0		

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

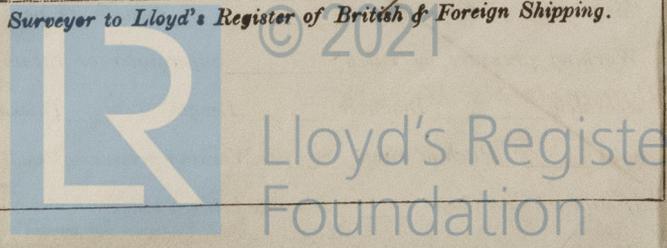
Committee's Minute

PHI. 3 DEC 1909

MACHINERY CERTIFICATE WRITTEN.

Assigned

+ L.M.C. 11,09



Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.