

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description		When made	Where fixed
Made at	By whom made			
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area
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
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 top end; 2 bottom end; 2 main bearing and 2 sets of couple bolts and nuts. Air pump head valve, seat, bucket and rod. Circulating pump impeller and shaft. Pair top and pair bottom end brasses - eccentric strap. Valve spindle - set of piston packing rings.

John Brown & Company, Limited.
The foregoing is a correct description,

J. Henderson Manufacturer.

Assistant Secretary

Dates of Survey while building	During progress of work in shops - -	1910. Apr 6. 25. May 4. 10. 16. 18. 26. June 1. 7. 16. 21. 29. July 12. 27. Aug 3. 16.
	During erection on board vessel - -	Sep 2. 12. 21. 29. Oct 4. 6. 12. 18. 25. 27. 31. Nov 2. 4. 7. 15. 18. 24. Dec 6. 9. 12. 13.
Total No. of visits		38

Is the approved plan of main boiler forwarded herewith yes

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

Dates of Examination of principal parts—Cylinders 1-6-10 / 26-5-10 Slides 16-8-10 Covers 16-8-10 Pistons 16-8-10 Rods 16-8-10

Connecting rods 16-8-10 Crank shaft 16-6-10 Thrust shaft 7-6-10 Tunnel shafts 16-6-10 Screw shaft 1-6-10 Propeller 2-8-10

Stern tube 12-7-10 Steam pipes tested 4-10-10 / 16-11-10 Engine and boiler seatings 29-9-10 Engines holding down bolts 2-11-10

Completion of pumping arrangements 6-12-10 Boilers fixed 25-10-10 Engines tried under steam 13-12-10

Main boiler safety valves adjusted 6-12-10-9-12-10 Thickness of adjusting washers PFB $\frac{5}{16}$ full AV $\frac{5}{16}$ SFB $\frac{5}{16}$ full AV $\frac{5}{16}$
PAB $\frac{5}{16}$ SAB $\frac{5}{16}$

Material of Crank shaft steel Identification Mark on Do. 41Y HC Material of Thrust shaft steel Identification Mark on Do. 41Y HC

Material of Tunnel shafts steel Identification Marks on Do. 41Y HC Material of Screw shafts steel Identification Marks on Do. 41Y HC

Material of Steam Pipes steel Test pressure 645 lbs

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 plan enclosed; and has been seen working under steam satisfactorily. Materials and workmanship are good. This machinery is eligible in my opinion to be classed + LMC 12-10.

1 cut feed valve
Both nuts (as noted)

It is submitted that this vessel is eligible for THE RECORD. + LMC 12.10.

F.D. *J.W.D.* 22/12/10. *P.R.S.*

The amount of Entry Fee	£ 3 : 0 :	When applied for,	19/12/10
Special	£ 54 : 16 :	When received,	24/12/10
Donkey Boiler Fee	£ :		
Travelling Expenses (if any)	£ :		

Committee's Minute **Glasgow** 20 DEC. 1910

Assigned + LMC 12, 10

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

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Glasgow

Certificate (if required) to be sent to

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