

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 rod bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of feed & bilge pump valves, one set of air pump valves, one main & one donkey feed check valve, assorted bolts & nuts etc.*

The foregoing is a correct description, **FOR AMOS & SMITH LTD.**

Manufacturer. *B. H. Robinson*

Dates of Survey while building: During progress of work in shops --- 1911: Apr. 12, 27, May 2, 11, 31, Jun. 13, 16, July 3, 7, 15, 27, Aug 3, 8, 10, 12, 14, 16, 17, Sep 5, 11, 12, 19, 21, 26, 27, Oct 3, 5, 9, 13, 14, 16, 19, 25, 27, 30, Nov 2, 7, 11.

Secretary. *B. H. Robinson*

Total No. of visits *37*

Is the approved plan of main boiler forwarded herewith *R/L 24410*

Dates of Examination of principal parts—Cylinders *5.10.11* Slides *16.10.11* Covers *16.10.11* Pistons *16.10.11* Rods *13.10.11*

Connecting rods *13.10.11* Crank shaft *9.10.11* Thrust shaft *14.8.11* Tunnel shafts _____ Screw shaft *12.8.11* Propeller *12.8.11*

Stern tube *12.8.11* Steam pipes tested *27.10.11* Engine and boiler seatings *16.8.11* Engines holding down bolts *30.10.11*

Completion of pumping arrangements *7.11.11* Boilers fixed *30.10.11* Engines tried under steam *2.11.11*

Main boiler safety valves adjusted *2.11.11* Thickness of adjusting washers *5 7/8 P 1/2*

Material of Crank shaft *Steel* Identification Mark on Do. *813 9.10.11* Material of Thrust shaft *Steel* Identification Mark on Do. *813 14.8.11*

Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts *Iron* Identification Marks on Do. *813 12.8.11*

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. All of good material & workmanship & have been fitted & secured on board in accordance with the Rules.*

During the trial of the machinery a crack about 6" long developed on the Port forward end of the condenser. This has been patched and accepted by the owner and in my opinion is quite efficient. The machinery now being in good working condition is respectfully submitted as being eligible in my opinion to have entry of T.L.M.C. 11-11 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + LMC 11.11.

JWD
27/11/11

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

The amount of Entry Fee .. £ 1 : 0 : 0 When applied for, _____

Special .. £ 12 : 12 : 0 10-11-11

Donkey Boiler Fee .. £ : : : When received, _____

Travelling Expenses (if any) £ : : : 30.11.11

Committee's Minute **FRI. NOV. 24 1911**

Assigned *+ Lmb 11.11*



Lloyd's Register Foundation

Certificate (if required) to be sent to Hull

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

MACHINERY CERTIFICATE

MAILED