

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:— *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. Main & donkey feed check valves. Assorted bolts & nuts etc.*

The foregoing is a correct description,

For and on behalf of **RICHARDSONS WESTGARTH & Co. Ltd.** Manufacturer.

Dates of Survey while building: During progress of work in shops— *1910 May 12, 24 June 1, 9, 13, 16, 21, 24, 28, 30 July 5, 8, 11, 13, 18, 21, 25, 28, 29 Aug 2, 4, 9, 12, 16, 19, 21, 24, 27, 30 Sept 6, 7, 9, 11, 14, 17, 20, 23, 27, 30 Oct 4, 7, 10, 13, 16, 20, 23, 27, 30 Nov 3, 6, 9, 12, 15, 18, 21, 24, 27, 30 Dec 2, 5, 8, 11, 14, 17, 20, 23, 27, 30*

MANAGING DIRECTOR. *J. W. Westgarth*

Total No. of visits *49* Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders *26.8.10* Slides *7.9.10* Covers *7.9.10* Pistons *31.8.10* Rods *31.8.10*

Connecting rods *31.8.10* Crank shaft *4.9.10* Thrust shaft *7.9.10* Tunnel shafts *7.9.10* Screw shaft *15.11.10* Propeller *9.11.10*

Stern tube *9.11.10* Steam pipes tested *29.11.10* Engine and boiler seatings _____ Engines holding down bolts *28.11.10*

Completion of pumping arrangements *30.11.10* Boilers fixed *28.11.10* Engines tried under steam *30.11.10*

Main boiler safety valves adjusted *30.11.10* Thickness of adjusting washers *P 15" S 15"*

Material of Crank shaft *Steel* Identification Mark on Do. *4945 CTH* Material of Thrust shaft *Steel* Identification Mark on Do. *6591 J.K*

Material of Tunnel shafts *Iron* Identification Marks on Do. *6591 J.K* Material of Screw shafts *Iron* Identification Marks on Do. *6591 J.K*

Material of Steam Pipes *Solid drawn copper* Test pressure *450 lbs*

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

The engines and boiler of this vessel have been constructed under Special Survey, are of good material and workmanship and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in our opinion eligible to have the notation of +LMC 12, 10, in the Register Book.

It is submitted that this vessel is eligible for **THE RECORD, + LMC 12, 10.**

J.W. Westgarth
20/12/10

The amount of Entry Fee..	£ 2 : 0 :	When applied for,
Special	£ 15 : 0 :	9.12.10
Donkey Boiler Fee	£ :	When received,
Travelling Expenses (if any) £	:	13/12/10

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

Committee's Minute **FRI. 23 DEC 1910**
Assigned *+ LMC 12, 10*



m. a. b. c. d.

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