





# 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 \_\_\_\_\_  
 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, 2 main bearing & 1 set of Coupling bolts, 1 propeller, 1 set feed & bilge pump valves, 1 main & 1 donkey feed check Valve, Bolts & nuts assorted & iron of sizes

The foregoing is a correct description,  
 NORTH EASTERN MARINE ENGINEERING CO. LTD.  
 Manufacturer.

1908.  
 Dates of Survey while building: During progress of work in shops— May 11, 19, 27, 29, June 1, 7, 8, 10, 12, 14, 15, 22, 30, July 2, 7, 9, 11, 13, 15, 18, 21, 24, 28, 30, Aug: 4, 5, 6, 7, 10, 12, 13, 14, 20, 26, 31, Sept 3, 4, 5, 11, 15, 17, 18, 21, 22, 23, 25, 28, 29, Oct 1, 7, 8, 10, 13, 14.  
 Total No. of visits 55.  
 Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders 7.9.08 Slides 15.9.08 Covers 21.9.08 Pistons 15.9.08 Rods 30.7.08  
 Connecting rods 31.8.08 Crank shaft 16.9.08 Thrust shaft 25.9.08 Tunnel shafts 25.9.08 Screw shaft 11.9.08 Propeller 15.9.08  
 Stern tube 15.9.08 Steam pipes tested 29.9.08 Engine and boiler seatings 18.9.08 Engines holding down bolts 1.10.08  
 Completion of pumping arrangements 3.10.08 Boilers fixed 1.10.08 Engines tried under steam 3.10.08  
 Main boiler safety valves adjusted 3.10.08 Thickness of adjusting washers F.V. 7/8", A.V. 3/8"  
 Material of Crank shaft Steel Identification Mark on Do. 44615. Material of Thrust shaft Steel Identification Mark on Do. 3928K  
 Material of Tunnel shafts Iron Identification Marks on Do. 49015 Material of Screw shafts Iron Identification Marks on Do. 575C.  
 Material of Steam Pipes Copper Test pressure 400 lbs

General Remarks (State quality of workmanship, opinions as to class, &c.) The Machinery of this vessel has been constructed under special survey, the workmanship and materials used are both of good quality, the Engines have been tried under steam and worked satisfactorily

I beg to recommend that this vessel is eligible in my opinion to have the record L.M.C. 10.08 in the Register Book

It is submitted that this vessel is eligible for THE RECORD. L.M.C. 10.08.

The amount of Entry Fee. £ 2 : 0 : 0 When applied for, 20.10.08  
 Special ... £ 21 : 3 : 0  
 Donkey Boiler Fee ... £ : : :  
 Travelling Expenses (if any) £ : : :  
 When received, 24/10/08

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

Committee's Minute

FRI. 23 OCT 1908

Assigned

MACHINERY CERTIFICATE WRITTEN.



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