

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. 1 Description Vertical (Sudson's Patent)
 Made at _____ By whom made _____ When made _____ Where fixed in Strathfield
 Working pressure 180 tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety
 Valves Spring loaded No. of Safety Valves 2 Area of each 7^{sq} Pressure to which they are adjusted 90 Date of adjustment _____
 If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no 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 end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts & nuts, 1 set of coupling bolts & nuts, 2 fuel pump & 2 bilge pump valves, assorted bolts & nuts and iron of various sizes.

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

J. J. Harrison Manufacturer.

Dates of Survey while building
 During progress of work in shops - - Secretary. 1909
 During erection on board vessel - - May 13-15-20-21 Jun 4-7-9-15 Jul 6-15-22-23-25-29-30 Aug 4-10-17-19-27-30-31 Sep 1-2-3
 Total No. of visits 33 Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 6/7/09 Slides 10/8/09 Covers 10/8/09 Pistons 10/8/09 Rods 22/7/09
 Connecting rods 10/8/09 Crank shaft 10/8/09 Thrust shaft 10/8/09 Tunnel shafts _____ Screw shaft 30/8/09 Propeller 31/8/09
 Stern tube 21/8/09 Steam pipes tested 17/9/09 Engine and boiler seatings 31/8/09 Engines holding down bolts 15/9/09
 Completion of pumping arrangements 21/9/09 Boilers fixed 14/9/09 Engines tried under steam 21/9/09
 Main boiler safety valves adjusted 21/9/09 Thickness of adjusting washers Port 7/16 St 1/32
 Material of Crank shaft Steel Identification Mark on Do. R.W.P Material of Thrust shaft Steel Identification Mark on Do. 6652 N.W.C
 Material of Tunnel shafts Iron Identification Marks on Do. _____ Material of Screw shafts Iron Identification Marks on Do. R.W.C 30/8/09
 Material of Steam Pipes SD. Copper Test pressure 360 lbs

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

These engines and boilers have been built under special survey, the materials and workmanship are of good description, they have been well fitted on board and tested under steam.

This machinery is now in my opinion eligible to have notification of **RLMC 10.09** in the Register Book

It is submitted that this vessel is eligible for THE RECORD. + LMC 10.09.

J.W.D. F.R.S.
19/10/09

A.M. McLeand

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

The amount of Entry Fee. . £ 2 : 0 :
 Special £ 16 : 10 :
 Donkey Boiler Fee £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 16 OCT 1909
 When received, 19-10-09

Committee's Minute

TUES. 19 OCT 1909

Assigned

+ Lmc 10.09

MACHINERY CERTIFICATE WRITTEN



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