

REPORT ON MACHINERY.

No. 5357 Port of Dundee Received at London Office _____
 No. in Survey held at Glasgow & Dundee Date, first Survey _____
 Reg. Book. _____ Last Survey 10 April 1890
 on the four-masted Iron & Steel Br. May hill (Number of Visits) _____
 Tons 2121
 Master Hume Built at Dundee By whom built A. Stephen & Low When built 1890
 Engines made at _____ By whom made _____ when made _____
 Boilers made at _____ By whom made _____ when made _____
 Registered Horse Power _____ Owners G. W. Wood Port belonging to Liverpool

ENGINES, &c.—

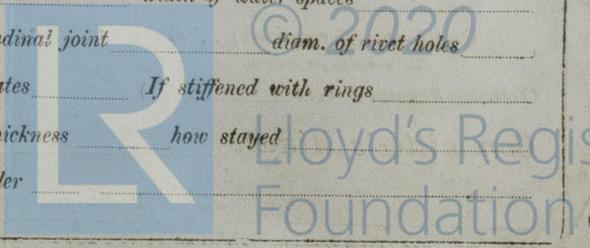
Description of Engines _____
 Diameter of Cylinders _____ Length of Stroke _____ No. of Rev. per minute _____ Point of Cut off, High Pressure _____ Low Pressure _____
 Diameter of Screw shaft _____ Diam. of Tunnel shaft _____ Diam. of Crank shaft journals _____ Diam. of Crank pin _____ size of Crank webs _____
 Diameter of screw _____ Pitch of screw _____ No. of blades _____ state whether moveable _____ total surface _____
 No. of Feed pumps _____ diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 No. of Bilge pumps _____ diameter of ditto _____ Stroke _____ Can one be overhauled while the other is at work _____
 Where do they pump from _____
 No. of Donkey Engines _____ Size of Pumps _____ Where do they pump from _____
 Are all the bilge suction pipes fitted with roses _____ Are the roses always accessible _____ Are the sluices on Engine room bulkheads always accessible _____
 No. of bilge injections _____ and sizes _____ Are they connected to condenser, or to circulating pump _____
 How are the pumps worked _____
 Are all connections with the sea direct on the skin of the ship _____ Are they Valves or Cocks _____
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates _____ Are the discharge pipes above or below the deep water line _____
 Are they each fitted with a discharge valve always accessible on the plating of the vessel _____ Are the blow off cocks fitted with a spigot and brass covering plate _____
 What pipes are carried through the bunkers _____ How are they protected _____
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times _____
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges _____
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock _____
 Is the screw shaft tunnel watertight _____ and fitted with a sluice door _____ worked from _____

BOILERS, &c.—

Number of Boilers _____ Description _____ Whether Steel or Iron _____
 Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____
 Description of superheating apparatus or steam chest _____
 Can each boiler be worked separately _____ Can the superheater be shut off and the boiler worked separately _____
 Area of square feet of fire grate surface in each boiler _____ Description of safety valves _____ No. to each boiler _____
 Area of each valve _____ Are they fitted with easing gear _____ No. of safety valves to superheater _____ area of each valve _____
 Are they fitted with casing gear _____ Smallest distance between boilers and bunkers or woodwork _____ Diameter of boilers _____
 Length of boilers _____ description of riveting of shell long. seams _____ circum. seams _____ Thickness of shell plates _____
 Diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ Lap of plating _____
 Percentage of strength of longitudinal joint _____ working pressure of shell by rules _____ size of manholes in shell _____
 No. of compensating rings _____ No. of Furnaces in each boiler _____
 Inside diameter _____ length, top _____ bottom _____ thickness of plates _____ description of joint _____ if rings are fitted _____
 Greatest length between rings _____ working pressure of furnace by the rules _____ combustion chamber plating, thickness, sides _____ back _____ top _____
 Height of stays to ditto, sides _____ back _____ top _____ If stays are fitted with nuts or riveted heads _____ working pressure of plating by _____
 Rules _____ Diameter of stays at smallest part _____ working pressure of ditto by rules _____ end plates in steam space, thickness _____
 Height of stays to ditto _____ how stays are secured _____ working pressure by rules _____ diameter of stays at _____
 Smallest part _____ working pressure by rules _____ Front plates at bottom, thickness _____ Back plates, thickness _____
 Greatest pitch of stays _____ working pressure by rules _____ Diameter of tubes _____ pitch of tubes _____ thickness of tube _____
 Plates, front _____ back _____ how stayed _____ pitch of stays _____ width of water spaces _____
 Diameter of Superheater or Steam chest _____ length _____ thickness of plates _____ description of longitudinal joint _____ diam. of rivet holes _____
 No. of rivets _____ working pressure of shell by rules _____ diameter of flue _____ thickness of plates _____ If stiffened with rings _____
 Distance between rings _____ working pressure by rules _____ end plates of superheater, or steam chest; thickness _____ how stayed _____
 Superheater or steam chest; how connected to boiler _____

Description of furnaces

DUN114-0275



Sailing Ship "Mayhill"

DONKEY BOILER— Description *Round Vertical*
 Made at *Barhead* by whom made *S. Wallace & Coy* when made *1890* where fixed *on deck*
 Working pressure *80 lbs* tested by hydraulic pressure to *160 lbs* No. of Certificate *2544* fire grate area *14 sq ft* description of safety valves *Spring*
 enter the donkey boiler No. of safety valves *Two* area of each *4.9 sq in* if fitted with easing gear *Yes* if steam from main boilers
 diameter of donkey boiler *5 1/2* length *9.9* description of riveting *Double lap*
 Thickness of shell plates *3/16* diameter of rivet holes *13/16* whether punched or drilled *Drilled* pitch of rivets *3 1/2* lap of plating *4*
 per centage of strength of joint thickness of crown plates *3/16* stayed by *Uptake + 3 stays 1 1/2 dia*
 Diameter of furnace, top *4.5* bottom *4.8* length of furnace *5.10* thickness of plates *3/16* description of joint *lap*
 Thickness of furnace crown plates *3/16* stayed by *As above* working pressure of shell by rules
 Working pressure of furnace by rules diameter of uptake *12* thickness of plates *3/16 in* thickness of water tubes *3/16*

SPARE GEAR. State the articles supplied: *This boiler has been forwarded Dundee to be fitted on board a sailing ship Mayhill. The workmanship & materials are of good description and in my opinion suitable for a working pressure of 80 lbs per sq inch.*
 The foregoing is a correct description.

Manufacturer.

James Morrison Clyde Dist

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

The safety valves of this boiler have been seen under steam; blowing off at 80 lb p. sq. inch.

W. D. Seydell

The amount of Entry Fee .. £ : : received by me.
 Special .. £ : :
 Donkey Boiler Fee .. £ *2* : *2* :-
 Certificate (if required) .. £ : :
 To be sent as per margin.
 (Travelling Expenses, if any, £)

15/2/ 1890



It is submitted that this donkey boiler is in good working order and that the vessel is eligible to remain as classed.

W. D. 24-4-90

Committee's Minute **TUES 29 APRIL 1890**

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



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