

REPORT ON MACHINERY. 4888/1

No. _____ Port of _____ Received at London Office _____
 No. in Survey held at London Date, first Survey Nov. 19th/87 Last Survey Dec. 17th 1888
 Reg. Book. _____ (Number of Visits 14)
 on the S. S. Countess of Gesseland Tons _____
 Master _____ Built at Millwall By whom built Steward & Latham When built 1888
 Engines made at E. Greenwich By whom made Appley Bros. when made 1888
 Boilers made at do. By whom made do when made 1888
 Registered Horse Power 50 Owners _____ Port belonging to _____

ENGINES, &c.—

Description of Engines Turn Screw driving 4 Propellers. Inverted cylinders.
 Diameter of Cylinders 18" x 33" Length of Stroke 24" No. of Rev. per minute 80 Point of Cut off, High Pressure 3/4" Low Pressure 3/4"
 Diameter of Screw shaft 6 1/4" Diam. of Tunnel shaft ✓ Diam. of Crank shaft journals 7" Diam. of Crank pin 7" size of Crank webs 8" x 5"
 Diameter of screw 6 ft. Pitch of screw 10 ft. No. of blades 4 state whether moveable no total surface 18.4 sq. ft.
 No. of Feed pumps 1 diameter of ditto 3" Stroke 9" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps 1 diameter of ditto 3" Stroke 9" Can one be overhauled while the other is at work ✓
 Where do they pump from Engine Room
 No. of Donkey Engines 1 Size of Pumps 3 dia. 6" stroke Where do they pump from Stoke hold & Sea

Are all the bilge suction pipes fitted with roses yes. Are the roses always accessible yes. Are the sluices on Engine room bulkheads always accessible yes.
 No. of bilge injections _____ and sizes _____ Are they connected to condenser, or to circulating pump _____
 How are the pumps worked Separate Engines
 Are all connections with the sea direct on the skin of the ship yes. Are they Valves or Cocks Both.
 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 above
 Are they each fitted with a discharge valve always accessible on the plating of the vessel yes. Are the blow off cocks fitted with a spigot and brass covering plate yes.
 What pipes are carried through the bunkers Bilge discharge. How are they protected Wooden casing
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes.
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes.
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock _____
 Is the screw shaft tunnel watertight no tunnel. and fitted with a sluice door ✓ worked from ✓

BOILERS, &c.—

Number of Boilers Two Description Multitubular Whether Steel or Iron Steel
 Working Pressure 100 lbs. Tested by hydraulic pressure to 200 lbs. Date of test Apr. 18th 1888
 Description of superheating apparatus or steam chest Steam dome.
 Can each boiler be worked separately yes. Can the superheater be shut off and the boiler worked separately ✓
 No. of square feet of fire grate surface in each boiler 32 sq. ft. Description of safety valves Direct spring No. to each boiler 2
 Area of each valve 7.07 Are they fitted with easing gear yes. No. of safety valves to superheater ✓ area of each valve ✓
 Are they fitted with easing gear ✓ Smallest distance between boilers and bunkers or woodwork 12" Diameter of boilers 8 ft. 3 in.
 Length of boilers 14 ft. description of riveting of shell long. seams Double lap circum. seams Single lap Thickness of shell plates 1 1/16"
 Diameter of rivet holes 1 1/16" whether punched or drilled _____ pitch of rivets 3 3/4" Lap of plating 6 3/4"
 Per centage of strength of longitudinal joint 73% working pressure of shell by rules 115 lbs. size of manholes in shell 15" x 12"
 Size of compensating rings 6" x 3/4" No. of Furnaces in each boiler 2
 Outside diameter 21 9/16" length, top 10' 6" bottom _____ thickness of plates 5/8" description of joint Milded if rings are fitted yes.
 Greatest length between rings 5' 3" working pressure of furnace by the rules 125 lbs. combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"
 Pitch of stays to ditto, sides 8 1/2" back 8 1/2" top 8 1/2" If stays are fitted with nuts or riveted heads nuts. working pressure of plating by rules 106 lbs. Diameter of stays at smallest part 1 1/4" working pressure of ditto by rules 106 end plates in steam space, thickness 1 1/16"
 Pitch of stays to ditto 14" how stays are secured nuts & washers working pressure by rules 100 lbs. diameter of stays at smallest part 2" working pressure by rules 144 lbs. Front plates at bottom, thickness 1 1/16" Back plates, thickness 1 1/16"
 Greatest pitch of stays 10" working pressure by rules 172 lbs. Diameter of tubes 3 1/2" pitch of tubes 5" thickness of tube plates, front 1 1/16" back 5/8" how stayed 8 tubes pitch of stays 10" width of water spaces 10"
 Diameter of Superheater or Steam chest 2' 3" length 2' 6" thickness of plates 3/4" description of longitudinal joint double lap diam. of rivet holes 1 1/16"
 Pitch of rivets 2" 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 Double pipe: 1 in. 3 3/8" pitch

LON684-0205

McDONKEY BOILER—

Description

Made at _____ by whom made _____ when made _____ where fixed _____
 Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ fire grate area _____ description of safety
 valves _____ No. of safety valves _____ area of each _____ if fitted with easing gear _____ if steam from main boilers can
 enter the donkey boiler _____ diameter of donkey boiler _____ length _____ description of riveting _____
 Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ lap of plating _____
 per centage of strength of joint _____ thickness of crown plates _____ stayed by _____
 Diameter of furnace, top _____ bottom _____ length of furnace _____ thickness of plates _____ description of joint _____
 Thickness of furnace crown plates _____ stayed by _____ working pressure of shell by rules _____
 Working pressure of furnace by rules _____ diameter of uptake _____ thickness of plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

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

The machinery has been built under Special Survey. Material
 & Workmanship good & eligible in my opinion to be marked
 in the Register Book with -I.M.C. 12. 88
 Safety valves set under steam to W.P. of 100 lbs & Engines work
 satisfactorily

It is submitted, that this vessel is eligible for L.M.C. 12-88.

N. A.
 18-12-88

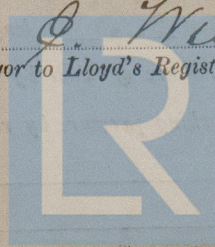
The amount of Entry Fee .. £ 10 : : received by me, 21/12/88
 Special .. £ : :
 Donkey Boiler Fee .. £ : :
 Certificate (if required) .. £ : : 26/2 1889
 To be sent as per margin.
 (Travelling Expenses, if any, £)

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

Committee's Minute

FRIDAY 21 DEC 1888

+ Lmb 12/88



Lloyd's Register
 Foundation