

REPORT ON MACHINERY.

Received at London THURS 1 SEPT 1887

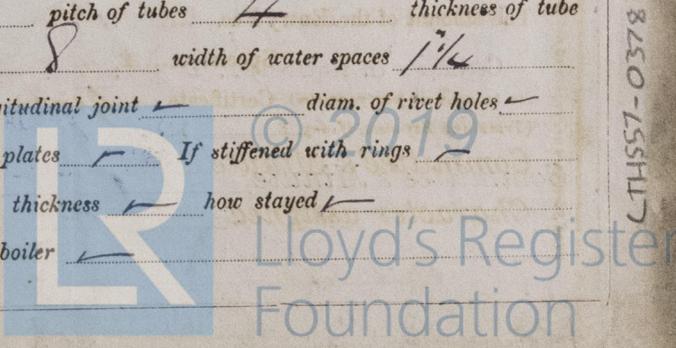
No. in Survey held at 5490 Louth Date, first Survey 8th June Last Survey 27th Aug 1887
 Book. "Florida" (Number of Visits 19) Tons 1092
 on the Steel Screw Steam Yacht "Florida" Tons 28.33
 Built at Louth By whom built John Cran & Co When built 1887
 Engines made at Louth By whom made Grants when made 1887
 Makers made at Louth By whom made John Cran & Co. when made 1887
 Registered Horse Power 17 Owners J.A. Waller Port belonging to London

ENGINES, &c.—

Description of Engines Compound, surface condenser, direct acting, inverted cycle
 Diameter of Cylinders 10 & 20 Length of Stroke 15 No. of Rev. per minute 140 Point of Cut off, High Pressure 6 Low Pressure 5
 Diameter of Screw shaft 4 Diam. of Tunnel shaft 4 Diam. of Crank shaft journals 4 Diam. of Crank pin 4 size of Crank webs 5 x 2 5/8
 Diameter of screw 5 1/2 Pitch of screw 8 1/2 No. of blades three state whether moveable no total surface 7.5 ft²
 No. of Feed pumps One diameter of ditto 1 Stroke 15 Can one be overhauled while the other is at work yes
 No. of Bilge pumps One diameter of ditto 1 Stroke 15 Can one be overhauled while the other is at work yes
 Where do they pump from Engine room bilges & holds
 No. of Donkey Engines One Size of Pumps 4 x 6 x 1 3/4 Where do they pump from Sea hot well & bilges
 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 Direct from crossheads
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes 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 yes Are the blow off' cocks fitted with a spigot and brass covering plate yes
 What pipes are carried through the bunkers None How are they protected —
 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 while building
 Is the screw shaft tunnel watertight — and fitted with a sluice door — worked from —

BOILERS, &c.—

Number of Boilers One Description cyl. multitubular Whether Steel or Iron Steel (S)
 Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 6/8/87
 Description of superheating apparatus or steam chest None
 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 13.5 ft² Description of safety valves Spring No. to each boiler one
 Area of each valve 7.07 ft² 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 6" Diameter of boilers 6'-10"
 Length of boilers 7'-0" description of riveting of shell long. seams Lap treble circum. seams Lap single Thickness of shell plates 7/16
 Diameter of rivet holes 7/8 whether punched or drilled D. pitch of rivets 1 1/2 x 2 1/4 Lap of plating 6 1/2
 Percentage of strength of longitudinal joint 79 7/8 working pressure of shell by rules 146 size of manholes in shell 15" x 11 1/2"
 Size of compensating rings 6 1/4 x 1/2 No. of Furnaces in each boiler One
 Outside diameter 2'-11" length, top 4'-6" bottom 6'-1" thickness of plates 1/32 description of joint Lap, 3 rivets if rings are fitted —
 Greatest length between rings — working pressure of furnace by the rules 95 combustion chamber plating, thickness, sides 7/16 back 1/32 top 1/32
 Pitch of stays to ditto, sides 8 5/8 back 8 5/8 top 8 5/8 If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 90
 Diameter of stays at smallest part 1 1/8 working pressure of ditto by rules 526 end plates in steam space, thickness 3/4
 Pitch of stays to ditto 1-2 7/8 how stays are secured double nuts working pressure by rules 90 lbs diameter of stays at smallest part 1 7/8
 working pressure by rules — Front plates at bottom, thickness 9/16 Back plates, thickness 9/16
 Greatest pitch of stays as per rule working pressure by rules — Diameter of tubes 2 3/4 pitch of tubes 4 thickness of tube plates, front 9/16 back 9/16 how stayed stay tubes pitch of stays 8 width of water spaces 1/4
 Diameter of Superheater or Steam chest — length — thickness of plates — description of longitudinal joint — diam. of rivet holes —
 Pitch 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 —



LTH557-0378

DONKEY 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 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,
John Grant & Co Manufacturer.

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

The machinery of this vessel has been built under special survey workman ship materials good.

The approve tracing & test certificate is sent herewith.

The safety valve has been set under steam to a working pressure of 9 lbs per square inch.

The machinery of this vessel is now in good working order & stable in my opinion, to be classed and marked **L.M.C. 8-87.**

The amount of Entry Fee .. £ 1 : : received by me, }
 Special .. £ 7 : : }
 Donkey Boiler Fee .. £ 7 : : }
 Certificate (if required) .. £ Gratia : 13/9/1887

(Travelling Expenses, if any, £ _____)

Committee's Minute

FRIDAY 2 SEPT 1887

Submitted that this vessel be classed L.M.C. 8-87
11.9.87

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

W. J. Darling

Grant

