

REPORT ON MACHINERY.

29975

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Received at London Office MONDAY 23rd DEC 1884

Survey held at Preston Date, first Survey 16th Feby. Last Survey 22nd Dec 1884
 on the Screw Steamer "Crocus" Tons _____
 Built at Preston By whom built N. Allsup & Sons When built 1884
 By whom made N. Allsup & Sons when made 1884
 By whom made Stevenson & Co. when made 1884
 Owners Wallasey Local Board Port belonging to Liverpool

Engines, &c.—
 Description of Engines Compound, Inverted, 4 Cylinders
 Diameter of Cylinders 2 of 18", 2 of 37" Length of Stroke 24" No. of Rev. per minute 100 Point of Cut off, High Pressure 7/2 Low Pressure 6/10
 Diameter of Screw shaft 6 1/2" Diam. of Tunnel shaft 6 1/4" Diam. of Crank shaft journals 6 1/2" Diam. of Crank pin 6 1/2" size of Crank webs 8 1/2" x 4 1/4"
 Diameter of screw 6.6" Pitch of screw 14.3" No. of blades 3 state whether moveable no total surface 14 sq. ft. each
 Number of Feed pumps 2 diameter of ditto 2 3/4" Stroke 12" Can one be overhauled while the other is at work yes.
 Number of Bilge pumps 2 diameter of ditto 2 3/4" Stroke 12" Can one be overhauled while the other is at work yes.
 Where do they pump from Engine room, Stokeholes, Fore and after holds
 Number of Donkey Engines one Size of Pumps 4" x 6" Where do they pump from Sea, and the bilges
all the holds.
 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.
 Number of bilge injections one and sizes 3" Are they connected to condenser, or to circulating pump Circulating pump.
 Are the pumps worked By levers from the low pressure piston crosshead, Circulating pump
 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 yes 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
 Are pipes 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.
 Were stern tube, propeller, screw shaft, and all connections examined in dry dock 23rd August 1884.
 Is screw shaft tunnel watertight no tunnel and fitted with a sluice door worked from _____

Boilers, &c.—
 Number of Boilers Two Description Cyl. Built. Single ended Whether Steel or Iron Steel.
 Working Pressure 100 lbs. Tested by hydraulic pressure to 200 lbs. Date of test 23rd August 1884.
 Description of superheating apparatus or steam chest None
 Can each boiler be worked separately yes Can the superheater be shut off and the boiler worked separately No superheater.
 Square feet of fire grate surface in each boiler 31 sq. ft. Description of safety valves Spring No. to each boiler 2
 Diameter of each valve 9.6" Are they fitted with casing gear yes No. of safety valves to superheater _____ area of each valve _____
 Are they fitted with casing gear _____ Smallest distance between boilers and bunkers or woodwork 8 inches Diameter of boilers 9.4 1/2"
 Diameter of boilers 10.0" description of riveting of shell long. seams double riv^d butt strap circum. seams double riv^d lap Thickness of shell plates 3/4"
 Diameter of rivet holes 1" whether punched or drilled drilled pitch of rivets 6 1/2" Lap of plating 5 3/4"
 Percentage of strength of longitudinal joint 71 working pressure of shell by rules 118 lbs. size of manholes in shell 16" x 13"
 Diameter of compensating rings 7 1/2" x 7 1/8" No. of Furnaces in each boiler 2
 Diameter of rings 2.10 1/4" length, top 6.9" bottom 8.0" thickness of plates 1 1/2" description of joint butt strap if rings are fitted no
 Working pressure of furnace by the rules 110 lbs. combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"
 Diameter of stays to ditto, sides 8 3/4" x 8" back 8 3/4" x 8 3/4" gusset stays 15" pitch, angles 11" pitch If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 101 lbs.
 Diameter of stays at smallest part 1 5/16" working pressure of ditto by rules 106 lbs. end plates in steam space, thickness 3/4"
 Diameter of stays to ditto 14" x 13" how stays are secured double nuts & continuous washers working pressure by rules 117 lbs. diameter of stays at smallest part 2" working pressure by rules 129 lbs. Front plates at bottom, thickness 5/8" Back plates, thickness 5/8"
 Smallest pitch of stays 11" working pressure by rules 115 lbs. Diameter of tubes 3/4" pitch of tubes 4 1/2" x 4 3/8" thickness of tube ends, front 3/4" back 1 1/16" how stayed stay tube pitch of stays 9" x 8 3/4" width of water spaces 1 1/8"
 Diameter of Superheater or Steam chest 2.11 1/4" length 3.6" thickness of plates 7/16" description of longitudinal joint double riv^d lap diam. of rivet holes 3/4"
 Diameter of rivets 2 3/4" working pressure of shell by rules 170 lbs. diameter of flue _____ thickness of plates _____ If stiffened with rings _____
 Working pressure between rings _____ working pressure by rules _____ end plates of superheater, or steam chest; thickness 9/16" how stayed 4 stay rods
 "dia. _____ Superheater or steam chest; how connected to boiler By double riv^d flange.

LIV587-0201

DONKEY BOILER— Description *None*

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:— *None*

The foregoing is a correct description,
H. W. L. S. Jones Manufacturer.

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

The machinery and boilers of this vessel have been constructed under Special Survey, and the workmanship is of a good quality, they have been tried under steam and found to work in a satisfactory manner and are now in safe and efficient working condition and eligible, in my opinion, to have the notification **L.M.C. 12. 84** recorded in the Register of this Society.

The amount of Entry Fee .. £ 1 : 0 : 0 received by me,
 Special £ 14 : 17 : 0
 Donkey Boiler Fee £ : :
 Certificate (if required) .. £ : : 18
 To be sent as per margin.
 (Travelling Expenses, if any, £)

J. F. L.
H. Stoddart
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute *Liverpool Dec: 27 = 1884.*
L.M.C. (Red) 12-84.

