

REPORT ON MACHINERY.

4898

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No. 4898 Port of Bull
 No. in Survey held at Bull & Gurnsey Date, first Survey 10th Apr 90 Last Survey 5th July 1891
 Reg. Book. _____ (Number of Visits 28)
 on the Iron screw steamer Letterworth Tons Gross 1002
Net 495
 Master Rutter Built at Bull By whom built Charles C. Lim When built 1891
 Engines made at Bull By whom made Charles C. Lim when made 1891
 Boilers made at Bull By whom made Charles C. Lim when made 1891
 Registered Horse Power 165 Owners M & L Railway Co Port belonging to Grimby

ENGINES, &c.—
 Description of Engines Triple Compound Inverted beam Acting No. of Cylinders Three
 No. of Cylinders 22: 35: 54 Length of Stroke 42 Rev. per minute 84 Point of Cut off, High Pressure .7 Low Pressure .7
 Diameter of Screw shaft 11 1/2 Diam. of Tunnel shaft 11 Diam. of Crank shaft journals 11 1/2 Diam. of Crank pin 12 1/2 size of Crank webs 13 1/2 x 7
 Diameter of screw 13.6 Pitch of screw 17.0 No. of blades 4 state whether moveable Yes total surface 5709 sq ft
 No. of Feed pumps two diameter of ditto 3 1/4 Stroke 24 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps two diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work Yes
 Where do they pump from Engine room Bilge & Stowage
 No. of Donkey Engines one Size of Pumps 8 x 4 1/2 x 12 Where do they pump from Sea Ballast Tank & Ballast
lump. Anchorage to Boiler Condenser back aboard & to Bilge & Stowage & Ballast Tank. Also 3' Pelometer
Sections for Sea Ballast Tanks and all Bilge sections.
 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 one and sizes 8 1/2 Are they connected to condenser, or to circulating pump Centrifugal Circulating Pump
 How are the pumps worked Air Feed Bilge pumps. Main Engine room. Circulating Separative
Engine the latter also pumps out Ballast tanks
 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 below
 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 Sections to Forward How are they protected wood cased
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times Yes in Engine room
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes
 Is the tube, propeller, screw shaft, and all connections examined in dry dock how new Launched 8th April 1891
 Is the tunnel watertight Yes and fitted with a sluice door Yes worked from Engine room top platform

BOILERS.—
 No. two Description Cylindrical Iron Material Steel Letter (for record) B
 No. 170 lbs Tested by hydraulic pressure to 340 lbs Date of test 28th April 1891
 Superheating apparatus or steam chest none fitted (Heating surface 4220 sq ft)
 Can the superheater be shut off and the boiler worked separately Yes
 Area of fire grate surface in each boiler 53 1/4 sq ft Description of safety valves Spring loaded No. to each boiler two
 Are they fitted with easing gear Yes No. of safety valves to superheater — area of each valve —
 Smallest distance between boilers and bunkers or woodwork 12" Diameter of boilers 14.3'
 description of riveting of shell long. seams all shop 3/16 circum. seams all shop 3/16 Thickness of shell plates 1 3/8"
 whether punched or drilled drilled pitch of rivets 7 7/8" & 8 1/8" Lap of plating 10 1/2"
 length of longitudinal joint 82.5% working pressure of shell by rules 142 lbs size of manholes in shell 17 1/2" x 12 1/2"
 No. of Furnaces in each boiler three Description of Furnaces Pomeroy Patent
 thickness of plates 35/64 description of joint welded if rings are fitted Yes
 working pressure of furnace by the rules 196 lbs combustion chamber plating, thickness, sides 9/16 back 9/16 top 10/16
 If stays are fitted with nuts or riveted heads Nuts working pressure of plating by
 rules 211 lbs Diameter of stays at smallest part 1 1/8" working pressure of ditto by rules 172 lbs end plates in steam space, thickness 1 1/8"
 how stays are secured all nuts & riveted working pressure by rules 170 lbs diameter of stays at
 smallest part 3/4" working pressure by rules 184 lbs Front plates at bottom, thickness 1 1/4" Back plates, thickness 1 1/4"
 Diameter of tubes 3 1/2" pitch of tubes 4 1/2" thickness of tube
 plates, front 15/16" back 25/32" how stayed stay tubes pitch of stays 9" width of water spaces 12"
 length thickness of plates description of longitudinal joint diam. of rivet holes
 working pressure of shell by rules diameter of flue thickness of plates If stiffened with rings
 end plates of superheater, or steam chest; thickness how stayed
 Superheater or steam chest; how connected to boiler

HULL 404-0222

