

160162

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S CERTIFICATE & REPORT.

ENGINES.

Rev 6/3/76

Description *Inverted Compound Surface Condensing.*
 Made by *Mr. John Dickinson, Sunderland.*
 In the year *1873.*
 Present condition *good.*
 Diameter of cylinder *S. one HP. 27. & one LP 51.*
 Length of stroke *33 inches.*
 No. of revolutions per minute *60.*
 Point of cut off *1/2 stroke.*
 Paddle, or Screw *Screw.*
 Nominal Horse Power *99.*
 Diameter of screw, or of paddle wheel *12.9.*
 Pitch of screw *15.9.*
 No. of blades, *4,* total surface *50 sq. feet.*
 No. of bilge pumps *2,* and size *3 1/2 dia. x 16 1/2 stroke.*
 Do they pump from each compartment *yes.*
 Is there provision made for pumping }
 from the wings of the stoke hold } *yes.*

Are all the bilge suction pipes fitted with roses* *yes.*
 What vacuum and steam gauges are }
 there attached to the engines } *1 vacuum gauge on Condenser,*
 and boilers..... } *1 steam gauge in engine room,*
 } *1 do on each boiler in stoke hold.*
 No. of feed pumps *2,* and sizes *3 1/2 dia. x 16 1/2 stroke.*
 Description and size of }
 Donkey Engine... } *Inverted Cyl: 8 dia. x 6 stroke,*
 } *Pump 4 1/2 " x 6 "*
 Will it feed the boilers, pump }
 from the bilges, and pump } *Yes (except from bilges) Ballast tank,*
 on deck } *Pumps from the bilges.*
 Can it be driven by steam }
 from a separate boiler } *yes.*
 No. of bilge injections *one* and sizes *3 1/2 dia.*
 Are they fitted with ^{*to it*} non return valves *yes.*
 Is there a hand pump in the engine room *yes.*
 Can it be worked by the main engines *no.*
 Is there a deck hose of sufficient length }
 to reach to any part of the vessel } *yes.*

CONNECTIONS ON HULL.

Are all connections with the sea }
 direct on the skin of the ship } *yes.*
 Are they Kingston valves or common cocks *Stop valves & Cocks.*
 Are they fixed sufficiently high on }
 the ship's side to be seen } *no.*
 without lifting the stoke hold }
 plates }
 Are the discharge pipes above or }
 below the deep water line } *below.*
 Are they each fitted with a discharge }
 valve on the plating of the vessel } *yes.*

Are any pipes carried through the bunkers *none.*
 If so state how protected
 When was the stern tube, }
 propeller, screw shaft, } *Jan'y 1876.*
 and all connections }
 examined in dry dock }
 How are the pipes, cocks, and valves }
 arranged so as to prevent } *non return valves.*
 an unintentional connection }
 between the sea and the bilge }
 Have the bilge suction non- }
 return valves fitted or not } *not fitted.*

BOILERS.

Number *Two.*
 Description *Cylindrical & Multitubular.*
 Made by *Mr. J. Dickinson.*
 In the year *1873*
 Present condition *good.*
 When last extensively repaired *no extensive repairs required.*
 Working pressure *67 lbs per sq. inch*
 When tested by hydraulic pressure *July 1873.*
 To what pressure tested *130 lbs per sq. inch.*
 Any super-heating apparatus *none.*
 Describe it
 Can each boiler be worked separately *yes.*
 Is each boiler fitted with a separate steam gauge *yes.*

Can the super-heater be shut off and }
 the boilers worked separately }
 No. of safety valves on each boiler *one.*
 Description and area of each safety valve *Seven & weight 5" dia. = 19.6 sq. in.*
 No. of square feet of fire-grate }
 surface in each boiler } *29 1/2.*
 Is there a separate blow off and }
 brine cock on each boiler, } *yes.*
 independent of those }
 on the vessel's skin }
 Is the screw shaft tunnel water }
 tight and fitted with a } *Tunnel not watertight,*
 sluice door on bulkhead } *Sluice door fitted.*
 Are all pipes, cocks, and roses in con- }
 nection with these boilers acces- } *yes.*
 sible to the engineer at all times }

John Dickinson Manufacturer.

I hereby certify that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "*Vindomora*" owned by *Bell, Symonds & Co.* of the Port of *London* of *692* Tons Register, and *99* Nominal Horse Power, have been carefully inspected and examined by *me* at *Sunderland* and found to be at this date, viz., *Feb. 7th 1876.* in good order and safe working condition.

William Allison.
Engineer Surveyor to Lloyd's Register of Shipping.

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Foundation

Report (if any) on Hull of Vessel. Port Sunderland No 11352