

Report No. 3487.

"Rosa Mary" 14765. Iron

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S CERTIFICATE.

### ENGINES.

Description *Inverted Compound Surface Condensing,*  
 Made by *Messrs J. Richardson & Sons,*  
 In the year *1875,*  
 Present condition *good,*  
 Diameter of cylinder *27" HP. 50" LP,*  
 Length of stroke *33,"*  
 No. of revolutions per minute *65, (About)*  
 Point of cut off *1/2 stroke, (no expansion valve)*  
 Paddle, or Screw *Screw,*  
 Nominal Horse Power *100,*  
 Diameter of screw, or of paddle wheel *13 feet*  
 Pitch of screw *16 feet*  
 No. of blades *4,* total surface *56 sq feet,*  
 No. of bilge pumps *2* and size *6" dia. x 6" stroke single acting,*  
 Do they pump from each compartment *yes,*  
 Is there provision made for pumping } *yes,*  
 from the wings of the stoke hole }

Are all the bilge suction pipes fitted with roses *yes,*  
 What vacuum and steam gauges are } *1 vacuum & 1 steam in engine room*  
 there attached to the engines } *and 1 pressure in stoke hole on boiler,*  
 and boilers .....  
 No. of feed pumps *2* and sizes *3 1/2" x 2 3/4" stroke single acting,*  
 Description and size of } *Inverted Cyl 6 1/2" dia x 7" stroke 1*  
 Donkey Engine... } *Pump 3 1/2" " 7" " double acting,*  
 Will it feed the boilers, pump } *yes,*  
 from the bilges, and pump }  
 on deck .....  
 Can it be driven by steam } *yes,*  
 from a separate boiler }  
 No. of bilge injections *1* and sizes *4 1/2" dia,*  
 Are they fitted with 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 } *yes,*  
 to reach to any part of the vessel }

### CONNECTIONS ON HULL.

Are all connections with the sea } *yes,*  
 direct on the skin of the ship }  
 Are they Kingston valves or common cocks *Common Valves & Cocks,*  
 they fixed sufficiently high on } *no,*  
 the ship's side to be seen }  
 without lifting the stokehole }  
 plates .....  
 Are the discharge pipes above or } *Close up to main deck*  
 below the deep water line } *at deep lead line,*  
 they each fitted with a discharge } *yes,*  
 valve on the plating of the vessel }

Are any pipes carried through the bunkers *no*  
 If so state how protected .....  
 When was the stern tube, } *new,*  
 propellor, screw shaft, }  
 and all connections }  
 examined in dry dock }  
 How are the pipes, cocks, and valves } *non return valve & cock with plug*  
 arranged so as to prevent } *open on bottom & only 1 foot in side*  
 an unintentional connection } *of it,*  
 between the sea and the bilge }  
 Have the bilge suction non- } *none,*  
 return valves fitted or not }

### BOILERS.

Number *one,*  
 Description *Cylindrical,*  
 Made by *Messrs J. Richardson & Sons,*  
 In the year *1875,*  
 Present condition *good,*  
 When last extensively repaired *new,*  
 Working pressure *65 lbs per sq. inch,*  
 When tested by Hydraulic pressure *May 1875,*  
 What pressure tested *130 lbs per sq. inch,*  
 Is there a super-heating apparatus *no,*  
 Describe it .....  
 Can each boiler be worked separately *only one,*  
 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 *2,*  
 Description and area of each safety valve *Spring valve 2. Special spring 20*  
 No. of square feet of fire-grate } *5 1/4 square feet,*  
 surface in each boiler } *dia of valve 4 3/8 = 15.63 area*  
 Is there a separate blow off and } *yes,*  
 brine cock on each boiler, }  
 independent of those }  
 on the vessel's skin }  
 Is the screw shaft tunnel water } *yes,*  
 tight and fitted with a }  
 sluice door on bulkhead }  
 Are all pipes, cocks, and roses in con- } *yes,*  
 nection with these boilers acces- }  
 sible to the engineer at all times }

*J. Richardson & Sons* Manufacturer.  
*Per Chas Smith*

hereby certify that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle)  
 Steam Vessel *"Rosa Mary"* owned by *Messrs Lovendale & Coy,*  
 of the Port of *Hartlepool* of *720* Tons Register, and *100* Nominal Horse Power,  
 have been carefully inspected and examined by *me* at *Hartlepool,* and found to be  
 at this date, viz., *May 14<sup>th</sup> 1875,* in good order and safe working condition.

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

