

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 23 1/2" stroke single acting,*  
Description and size of } *Inverted cyl 6 1/2" dia x 7" stroke,*  
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,*  
*10" it*  
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 square inches*  
*dia of valve 4 3/8" = 15.63 area*  
No. of square feet of fire-grate } *54 square feet,*  
surface in each boiler }  
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 Gervendale & Co.,*  
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* 1875, in good order and safe working condition.

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