

IRON 467-0231

16665 Iron

# LOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Rec 15/7/96

Description *Vert. Inv. Direct Acting Compound*  
 Made by *Messrs Scott of Grimsby* - *Compounded by*  
 When *May 1876* At *Genoa* *Messrs Pio Ferro & Co*  
 Diameter of cylinder *H.P. 28"* Length of stroke *30 inches*  
*L.P. 53"*  
 No. of revolutions per minute *65*  
 Point of cut off *0.75 of stroke of high pressure cyl*  
 Diameter of screw shaft *8 inches*  
 Diameter of crank shaft journals *8 1/4 inches*  
 Diameter of screw, or of paddle wheel *11 1/2"*  
 Pitch of screw *mean 18 feet*  
 No. of blades, *3* Total surface *25 feet*  
 No. of bilge pumps *2* and sizes *dia 3 1/4 x 16" stroke*  
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*  
 No. of feed pumps *2* and sizes *dia 3 1/4 x 16" stroke*  
 What gauges are there attached to the engines and boilers ... *One to each Boiler - One on donkey boiler - & one Vacuum gauge all "Bourdon"*  
 Description and size of Donkey Pumps ... *dia 5 1/4 x 8" stroke*  
 Where do they pump from ... *Bilge - Sea - Condenser*  
 No. of bilge injections *None* and sizes  
 Are they connected to air, or circulating pumps  
 Is there a hand pump in the engine room *No*  
 Can it be worked by the main engines  
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

### MAIN BOILERS.

Number *2* Description *Cylindrical & Tubular*  
 Made by *Messrs Pio Ferro & Co*  
 When *May 1876* At *Genoa*  
 Working pressure *60 lbs*  
 Tested by hydraulic pressure to *120*, Date *12th July/76*  
 Description of super-heating apparatus *None*  
 Can each boiler be worked separately *Yes*

Can the super heater be shut off and the boilers worked separately  
 Description and area of safety valves on each boiler ... *2 lever safety valves 1 1/2" dia to each boiler*  
 No. of square feet of fire-grate surface in each boiler *38 1/4 square*  
 Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*  
 Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. *Yes*

### DONKEY BOILER.

Description *Vertical with cross tube in furnace*  
 Where fixed *in stokehold*  
 Working pressure *45 lbs*

Tested by hydraulic pressure to *90 lbs*, Date *June/76*  
 Description and area of safety valves *one lever valve 3 1/2" dia*  
 No. of square feet of fire grate *6 1/2 square*

### PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *They are fitted on cast iron sockets*  
 Are they Kingston valves or common cocks ... *one Kingston valve for Condenser all the others common cocks*  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *They are all under the stoke hold plates, but easily accessible*  
 Are the discharge pipes above or below the deep water line *Yes*  
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *None*  
 How are they protected  
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *The stern tube is new and the shafting & pedutals new - by self*  
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*  
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Water tight - The shaft passes through the engine room bulkhead in a stuffing box*

Manufacturer.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Moncalieri* owned by *Messrs R. Rubattino & Co* of the Port of *Genoa* of *420.9* Tons Register, and *120* Registered Horse Power, and that they have been carefully inspected and examined by me at *Genoa* and found to be at this date, viz., *12th of July* 18 *76* in good order and safe working condition.

Fees £ 6. 0. 0.

*MRS*

*Francis Wiseman*  
 Engineer Surveyor to Lloyd's Register of Shipping

