

9655Bm

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER'S CERTIFICATE.

The following is a true Account of the Particulars of the Machinery and Boilers:—

ENGINES.—Here state description of Engines, whether Direct Acting or Geared; Inverted, Horizontal, Diagonal, or Oscillating Cylinders; No. of Cylinders, &c.

*High & Low Pressure Surface Condensing Inverted Cylinders  
Direct Acting Two Cylinders*

ENGINES, maker of *Garrahy Brothers & Co*  
 „ age of *New*  
 „ last time taken out  
 „ present condition  
 Diameter of Cylinder *42" x 40"*  
 Length of stroke *3 feet*  
 No. per minute of Engines *70*  
 „ of Screw *70*  
 Estimated power *220*  
 Effective power *1000*  
 Diameter of Screw (or Paddle Wheels) *14 ft*  
 Pitch of Screw *20*  
 No. of Blades (or Floats) *four*  
 Description of Screw (or Floats) *Equal pitched twisted*  
 Holding down Bolts, size *1 1/2 x 1 1/4*  
 „ present condition

Bilge Pumps, No. ( *1* ) and size *1 1/2" dia x 9" stroke double acting*  
 Feed „ No. ( *1* ) and size *6" x 9" stroke*  
 Spare gear, if usual quantity on board Vessel *none*  
 Fuel, where stowed *Boilers at sides aft end of*  
 „ space between Coal Bunkers and Boilers *6 inches*  
 „ for what quantity is space provided *135 Tons*  
 Donkey Engine and Boiler *Yes*  
 „ if fitted in Engine Room or on Deck *Stokehole*  
 „ can pump be worked by hand *one Hand pump*  
 „ size of pump ( *1 1/2* ) and stroke *10"*  
 „ is hose of sufficient length to reach every part of the Vessel *yes*  
 No. ( *1* ) and continuation of hand pumps, if fitted in Engine Room

BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fired athwartships, or from fore, or after end of Boiler, &c.

*Two Round Tubular Boilers 3 furnaces in each fired from aft end*

BOILER, maker of *Garrahy Brothers & Co*  
 „ age of *New*  
 „ when last taken out  
 „ present condition  
 „ working pressure *60 lbs*  
 No. of surface Blow off Cocks to each Boiler *Two*

Can each Boiler be used separately *No*  
 What clear space between top of Boiler and woodwork *4 feet 6 in*  
 What clear space between Funnel and woodwork *2 feet*  
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *89 feet* diameter *11"* Tunnel, thickness of plating *3/8* height *6 ft from top of tank 10 feet in all*  
 „ width *4 ft 1 in* if water-tight door on Engine Bulkhead. *yes*

Port *Amice Whiteth* day of *December* 18 *71*

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Ranibow* belonging to *General Steam Navigation Co* whereof *is* Master, *Tons* Register, and *220* H.P. have been carefully inspected and examined by *us* at *Amice* and *have* found the same, at this date, in good order and safe working condition.

*Garrahy Brothers & Co*  
 Marine Engineers.

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