

# 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.

*Inverted Direct Acting Compound, Surface Condensing  
Screw Engines 2 cylinders*

ENGINES, maker of *R & W. Hawthorn*  
age of *new*  
last time taken out  
present condition *new*  
diameter of Cylinder *38 & 46*  
length of stroke *3' 6"*  
revolutions per minute of Engines *55*  
diameter of Screw *55*  
rated power *360*  
effective power  
diameter of Screw (or Paddle Wheels) *16' 6" dia*  
length of Screw *22 ft to 26 ft*  
number of Blades (or Floats) *4*  
description of Screw (or Floats) *moveable blades*  
length of down Bolts, size *3" dia*  
present condition *new*

Bilge Pumps, No. ( *2* ) and size *7 dia x 12 stroke*  
Feed „ No. ( *2* ) and size *5 3/4 x 18 stroke*  
Spare gear, if usual quantity on board Vessel *yes*  
Fuel, where stowed *at sides of Engines - between Engines & Boilers & at end of Boilers*  
„ space between Coal Bunkers and Boilers *2' 0"*  
„ for what quantity is space provided *400 tons*  
Donkey Engine and Boiler *yes*  
„ if fitted in Engine Room or on Deck *Boiler on Spar Deck Donkey in Engine Room*  
„ can pump be worked by hand *yes*  
„ size of pump ( *6* ) and stroke *10 stroke*  
„ 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 *yes with Gear to Deck*

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.

*4 Boilers, Tubular 12 Furnaces - fitted with superheater  
fired athwartships*

BOILER, maker of *R & W. Hawthorn*  
age of *new*  
when last taken out  
present condition *new*  
working pressure *65*  
number of surface Blow off Cocks to each Boiler *one*

Can each Boiler be used separately *yes*  
What clear space between top of Boiler and woodwork *Iron Casing*  
What clear space between Funnel and woodwork *Iron Casing*  
Are Engine and Boiler Keelsons well connected fore and aft *yes*

SHAFT length *90 feet* diameter *11 1/4 dia* Tunnel, thickness of plating *1/4"* height *5' 3"*  
width *3' 0"* if water-tight door on Engine Bulkhead. *on Access aft of Thrust Bearing*

Port *Sunderland* day of *25<sup>th</sup>* March 18*91*.

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Galatea"* belonging to *Condor* whereof *Sturme* is Master, *2001* Tons Register, and *360* H.P. have been carefully inspected and examined by *us* at *Sunderland* and *we* found the same, at this date, in good order and safe working condition.

*R & W Hawthorn*  
*Newcastle-on-Tyne*  
Marine Engineers.

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