

S. Galatea

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) *movable 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 10 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 *25th* March 18*71*.

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 *London* 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 upon Tyne
Marine Engineers.

IRON 503-0273