

10905 Iron

# 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.

Two Inverted, direct acting, screw engines, one cylinder each engine now altered & fitted with Lorrain Condenser, &c.

ENGINES, maker of *George Clark & Co.*  
 „ age of *11 years*  
 „ ~~last time taken out~~  
 „ present condition *Almost new*  
 Diameter of Cylinder *38" dia*  
 Length of stroke *26" stroke*  
 No. per minute of Engines *64 rev*  
 „ of Screw *64 rev*  
 Estimated power *90 H.P.*  
 Effective power *405 H.P.*  
 Diameter of Screw (~~or Paddle Wheels~~) *11' 7" dia*  
 Pitch of Screw *16" ft.*  
 No. of Blades (~~or Floats~~) *3 Blades*  
 Description of Screw (~~or Floats~~) *Common*  
 Holding down Bolts, size *2" dia*  
 „ present condition *Good*

Bilge Pumps, No. ( *2* ) and size *4 1/2" dia*  
 Feed „ No. ( *2* ) and size *4 1/2" dia*  
 Spare gear, if usual quantity on board Vessel *Yes*  
 Fuel, where stowed *in side Bunkers*  
 „ space between Coal Bunkers and Boilers *least space 4"*  
 „ for what quantity is space provided *80 tons.*  
 Donkey Engine and Boiler *Yes*  
 „ if fitted in Engine Room or on Deck *Engine Room*  
 „ can pump be worked by hand *Yes*  
 „ size of pump ( ) and stroke *8"*  
 „ is hose of sufficient length to reach every part of the Vessel *Yes*  
 No. ( ) 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 cylindrical, multitubular Boilers, with two furnaces in each Boiler, & fired from fore end, & fitted with an annular Superheater at base of funnel.

BOILER, maker of *Victoria Dock Engine Works Ltd.*  
 „ age of *new*  
 „ ~~when last taken out~~  
 „ present condition *new*  
 „ working pressure *35 lbs*  
 No. of surface Blow off Cocks to each Boiler *one*  
 SCREW SHAFT length *11' 3 1/4"* diameter *7 3/4" dia*  
 width *—* if water-tight door on Engine Bulkhead. *—*

Can each Boiler be used separately *Yes*  
 What clear space between top of Boiler and woodwork *6 feet.*  
 What clear space between Funnel and woodwork *2 feet*  
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

Port *London* 9<sup>th</sup> day of *December* 1872

I hereby certify that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel *Newburn* belonging to *London* whereof *David Aitken* is Master, *529 2/5* Tons Register, and *90* H.P. have been carefully inspected and examined by *me* at *Victoria Dock London* and I found the same, at this date, in good order and safe working condition.

*M. Victoria Dock Engine Works Ltd.*  
*C. Emirich*  
 Marine Engineers.