

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.

One Pair of Inverted direct-acting screw engines fitted with Surface Condensers

11269 ton

ENGINES, maker of *Messrs Hawthorn & Co. Liverpool*

age of *by Messrs Palmers.*

last time taken out *new cylinders fitted April 1873.*

present condition *good.*

diameter of Cylinder *38"*

length of stroke *30"*

per minute of Engines *65*

of Screw *65*

estimated power *90*

effective power *360*

diameter of Screw *11'-6"*

length of Screw *15'-to 15'-6"*

No. of Blades (or Floats) *3.*

Description of Screw (or Floats) *Common*

Holding down Bolts, size *2 inches*

present condition *good*

Bilge Pumps, No. (*2*) and size *4 1/2 dia*

Feed „ No. (*2*) and size *do.*

Spare gear, if usual quantity on board Vessel *Yes*

Fuel, where stowed *side Bunkers*

„ space between Coal Bunkers and Boilers *10"*

„ for what quantity is space provided *90 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 (*4"*) 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 *none*

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.

One Rectangular dry Bottom Multitubular boiler with four furnaces and Annular Superheater, fired from after end.

BOILER, maker of *Messrs Palmers*

age of

when last taken out

present condition

working pressure *30 lbs good*

of surface Blow off Cocks to each Boiler *one*

new SHAFT length *40ft* diameter *8"*

width *if water-tight door on Engine Bulkhead. none*

Can each Boiler be used separately

What clear space between top of Boiler and woodwork *6'-0"*

What clear space between Funnel and woodwork *2'-0"*

Are Engine and Boiler Keelsons well connected fore and aft *yes*

Port *London* day of *April* 18 *73*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Steam Vessel *Iron* belonging to *John F. Smith & Co.* of *L. Douglas* is Master, *90* Tons Register, and *90* H.P. have been fully inspected and examined by *us* at *Victoria Dock, London* and *we* found the *same*, at this date, in good order and safe working condition.

for Victoria Dock & Engine Works Co.
P. F. Smith
 Marine Engineers Manager