

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 engines
 2 Cylinders to each engine fitted with
 Surface Condenser.*

ENGINES, maker of *Allison, Hayes & Co.*
 „ age of
 „ last time taken out
 „ present condition *New*
 Diameter of Cylinder *12 inches and 3 1/4 inches*
 Length of stroke *2 feet*
 No. per minute of Engines *75 revolutions*
 „ of Screw
 Estimated power *70 horses*
 Effective power *420*
 Diameter of Screw (or Paddle Wheels) *10 ft. 6 in*
 Pitch of Screw *16 ft*
 No. of Blades (or Floats) *3*
 Description of Screw (or Floats) *Common*
 Holding down Bolts, size *1 1/2 in*
 „ present condition *New*

Bilge Pumps, No. (*2*) and size *2 1/2 dia. 12 stroke*
 Feed „ No. (*2*) and size
 Spare gear, if usual quantity on board Vessel
 Fuel, where stowed *Fore and aft*
 „ space between Coal Bunkers and Boilers *Clean of boilers*
 „ for what quantity is space provided *35 tons*
 Donkey Engine and Boiler *One engine and boiler*
 „ if fitted in Engine Room or on Deck *Boiler on deck*
 „ can pump be worked by hand *Yes*
 „ size of pump (*8 in*) and stroke *8 in*
 „ is hose of sufficient length to reach every part of the Vessel *Sufficient*
 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.
*Messrs Allison's Patent Annular boiler two in
 number one furnace to each boiler fired from Aft side*

BOILER, maker of *Allison, Hayes & Co.*
 „ age of
 „ when last taken out
 „ present condition *New*
 „ working pressure *100 lbs*
 No. of surface Blow off Cocks to each Boiler *one to each*

Can each Boiler be used separately *Yes*
 What clear space between top of Boiler and woodwork *2 feet*
 What clear space between Funnel and woodwork *9 inches*
 Are Engine and Boiler Keelsons well connected fore and aft

REAR SHAFT length *50.6* diameter *4* Tunnel, thickness of plating *3/8* height *8.6 from bottom of keel*
 width *3.0* if water-tight door on Engine Bulkhead. *yes*

Port *London* *24th* day of *October* 18 *70*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) *Iron* Steam Vessel *Hinkotall* belonging to *Messrs Dawson* of *Cap Collidge* is Master, *Northfleet* Tons Register, and *70* H.P. have been fully inspected and examined by us at *Northfleet* and we have found the, at this date, in good order and safe working condition.

Allison, Hayes & Co.
Northfleet Iron Works
 Marine Engineers.

IRON 503-0098