

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.

Direct acting Let condensing Engines—
2 Cylinders Inverted.

12181

ENGINES, maker of *Thomas Clark Newcastle*
 „ age of *7 1/2 years*
 „ last time taken out *—*
 „ present condition *Good.*
 Diameter of Cylinders *Two - 35 ins*
 Length of stroke *28 ins*
 No. per minute of Engines *64 to 70*
 „ of Screw *—*
 Estimated power *70*
 Effective power *280*
 Diameter of Screw (or Paddle Wheels) *9. 10*
 Pitch of Screw *about 13. 6*
 No. of Blades (or Floats) *3*
 Description of Screw (or Floats) *Common*
 Holding down Bolts, size *2 ins*
 „ present condition *Good*

Bilge Pumps, No. (*2*) and size *3 1/4 diam*
 Feed „ No. (*2*) and size *3 1/4*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *In Side Bunkers*
 „ space between Coal Bunkers and Boilers *6 ins*
 „ for what quantity is space provided *100 Tons*
 Donkey Engine and Boiler *Yes*
 „ if fitted in Engine Room or on Deck *Donkey in Engine Room Boiler on Deck.*
 „ can pump be worked by hand *No*
 „ size of pump (*6*) and stroke *12*
 „ 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.

1 Tubular boiler with 3 furnaces fired from aft end
No superheating apparatus.

BOILER, maker of *Thomas Clark Newcastle*
 „ age of *7 1/2 years*
 „ when last taken out *2 years ago*
 „ present condition *Fair*
 „ working pressure *20 lbs per sq in*
 No. of surface Blow off Cocks to each Boiler *2 1 Surface x 1 Bottom*

Can each Boiler be used separately *—*
 What clear space between top of Boiler and woodwork *2 feet*
 What clear space between Funnel and woodwork *4. 6*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *65 feet* diameter *7 in* Tunnel, thickness of plating *1/4* height *3. 6*
 width *2. 3 1/2* if water-tight door on Engine Bulkhead. *Yes*

Port of *London* *8 1/2* day of *December* 18 *73*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Kellue* *501 gross* belonging to *Messrs J. Jones & Co London* whereof *James Gunn* is Master, *340 nett* Tons Register, and *70* H.P. have been carefully inspected and examined by me at *Lincolne* and I found the same, at this date, in good order and safe working condition.

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 Edward J. Jones
 Asst Engineer
 Lloyd's Register
 Marine Engineers.
 Foundation

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