

9048 *Ln*

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 —*

ENGINES, maker of *North Eastern Marine Engineering Co.*
 „ age of *New*
 „ last time taken out *„*
 „ present condition *„*
 Diameter of Cylinder *31" and 58"*
 Length of stroke *33"*
 No. per minute of Engines *60*
 „ of Screw *60*
 Estimated power *130*
 Effective power *520*
 Diameter of Screw (or Paddle Wheels) *13' 6"*
 Pitch of Screw *12' to 15'*
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *Common*
 Holding down Bolts, size *1 1/2"*
 „ present condition *new*

Bilge Pumps, No. (*2*) and size *3 1/2" dia x 33" stroke*
 Feed „ No. (*2*) and size *3 1/2" x 33"*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *Side bunkers in Engine room.*
 „ space between Coal Bunkers and Boilers *9"*
 „ for what quantity is space provided *102 x 196 Gross*
 Donkey Engine and Boiler *Yes Barbed*
 „ if fitted in Engine Room or on Deck *Engine room*
 „ can pump be worked by hand *Yes*
 „ size of pump (*4"*) and stroke *6"*
 „ is hose of sufficient length to reach every part of the Vessel *Yes*
 No. (*1*) ~~and continuation of hand~~ pump, ~~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. tubular boilers with two furnaces
in each boiler - fired from fore end of boiler - no superheater.*

BOILER, maker of *North Eastern Marine Engineering Co.*
 „ age of *New*
 „ when last taken out *„*
 „ present condition *„*
 „ working pressure *65 lbs*
 No. of surface Blow off Cocks to each Boiler *1*

Can each Boiler be used separately *yes*
 What clear space between top of Boiler and woodwork *9"*
 What clear space between Funnel and woodwork *2' 6"*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*
 height *5' 8" from top of Tanker*

SCREW SHAFT length *80 ft.* diameter *9 1/4"* Tunnel, thickness of plating *3/16*
 width *3' 9"* if water-tight door on Engine Bulkhead. *Yes*

Port *Sunduland* *14th* day of *April* 187*1*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Kingston* belonging to *London* whereof *„* is Master, *„* Tons Register, and *130* H.P. have been carefully inspected and examined by *us* at *Sunduland* and *We* found the same, at this date, in good order and safe working condition.

Given on behalf of the North Eastern
 Marine Engineering Company
 Limited.
 Marine Engineers.
Walter Beattie Esq