

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.

Pair of direct acting inverted cylinder compound Engines

ENGINES, maker of *N.E.M.C.C. Co. Ltd.*
 „ age of *New*
 „ last time taken out
 „ present condition
 Diameter of Cylinder *81" x 43"*
 Length of stroke *4' 0"*
 No. per minute of Engines *42*
 „ of Screw *42*
 Estimated power *250 N.H.P.*
 Effective power *1000 I.H.P.*
 Diameter of Screw (or Paddle Wheels) *14' 0"*
 Pitch of Screw *22' 0"*
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *Common screw*
 Holding down Bolts, size *1 1/2" diam*
 „ present condition *New*

Bilge Pumps, No. (*2*) and size *5" diam x 4 ft stroke*
 Feed „ No. (*2*) and size *5" " "*
 Spare gear, if usual quantity on board Vessel *yes*
 Fuel, where stowed *In fore & aft athwartship bunkers*
 „ space between Coal Bunkers and Boilers *9'*
 „ for what quantity is space provided *420 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 *6"*
 „ 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.

*4 Cylindrical Multitubular Boilers 2 Furnaces each
Fired athwartships*

BOILER, maker of *N.E.M.C.C. Co. Ltd.*
 „ age of *New*
 „ when last taken out
 „ present condition
 „ working pressure *40 lbs per square inch*
 No. of surface Blow off Cocks to each Boiler *1 surface 1 bottom*

Can each Boiler be used separately *yes*
 What clear space between top of Boiler and woodwork *5' 0"*
 What clear space between Funnel and woodwork *3' 9"*
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *145' 0"* diameter *12 3/4"* Tunnel thickness of plating *3/16* height *4' 0"*
 width *4' 6"* if water-tight door on Engine Bulkhead *yes*

Port *Londuland* *31st* day of *October* 18 *73*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or ~~Wood~~)
 Screw (or ~~Paddle~~) Steam Vessel *"Noonung"* belonging to *Londuland*
 whereof *J. Carlin* is Master, *1622.15* Tons Register, and *250* H.P. have been
 carefully inspected and examined by *us* and *we* found the
 same, at this date, in good order and safe working condition.

Second official of the North Eastern
 Marine Engineering Company
 Limited.

Marine Engineers.

Walker Beattie
 Foundation

IRONSCH - 2004