

11571 Iron

# 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.

*Compound. Inverted Vertical Acting Surface Condensing Screw Engines.*

ENGINES, maker of *Rait & Lindsay*  
 „ age of *New*  
 „ last time taken out  
 „ present condition *Good*  
 Diameter of Cylinder *29" and 32"*  
 Length of stroke *3' 0"*  
 No. per minute of Engines *76*  
 „ of Screw *18"*  
 Estimated power *N.P. = 120*  
 Effective power *614*  
 Diameter of Screw (or Paddle Wheels) *13' 6"*  
 Pitch of Screw *15' 6"*  
 No. of Blades (or Floats) *4*  
 Description of Screw (or Floats) *Common*  
 Holding down Bolts, size *1 1/4"*  
 „ present condition *Good*

Bilge Pumps, No. ( *2* ) and size *4 1/2" dia*  
 Feed „ No. ( *2* ) and size *4 1/2" dia*  
 Spare gear, if usual quantity on board Vessel *yes*  
 Fuel, where stowed *Forward fore and aft.*  
 „ space between Coal Bunkers and Boilers *7' 0"*  
 „ for what quantity is space provided  
 Donkey Engine and Boiler *yes*  
 „ if fitted in Engine Room or on Deck *Stoke hold*  
 „ can pump be worked by hand *yes*  
 „ size of pump ( *4* ) 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 force, or after end of Boiler, &c.

*Two tubular boilers. four furnaces fore and aft.*

BOILER, maker of *Rait & Lindsay*  
 „ age of *New*  
 „ when last taken out  
 „ present condition *Good*  
 „ working pressure *50 lbs*  
 No. of surface Blow off Cocks to each Boiler *one*  
 SCREW SHAFT length *20' 9"* diameter *11" inches* Tunnel, thickness of plating *5/16"* height  
 width if water-tight door on Engine Bulkhead.

Can each Boiler be used separately *yes*  
 What clear space between top of Boiler and woodwork *18" inches*  
 What clear space between Funnel and woodwork *2' 6"*  
 Are Engine and Boiler Keelsons well connected fore and aft *yes*

Port *Glasgow* *22<sup>nd</sup>* day of *June* 18 *73*

*We* hereby certify, that the whole of the above Machinery and Boilers, of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Kinghorn* belonging to *Leith* whereof *Craig* is Master, *575* Tons Register, and *120* H.P. have been carefully inspected and examined by us at *Glasgow Harbour* and we found the same, at this date, in good order and safe working condition.

*Rait Lindsay*  
*Crautounhill Foundry Glasgow*  
 Marine Engineers.