

11955 *Two*

## 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.*The engines are inverted direct acting, compound with surface condenser and one high & one low pressure cylinder.*

ENGINES, maker of *Mr Geo Clark Sunderland*  
 „ age of *one year*  
 „ last time taken out *1873*  
 „ present condition *In thorough repair*  
 Diameter of Cylinder *26 & 47*  
 Length of stroke *33*  
 No. per minute of Engines *64 revs*  
 „ of Screw *64*  
 Estimated power *90 HP nom*  
 Effective power  
 Diameter of Screw (~~or Paddle Wheels~~) *12-6*  
 Pitch of Screw  
 No. of Blades (~~or Paddles~~) *4*  
 Description of Screw (~~or Paddles~~) *fixed blades*  
 Holding down Bolts, size *1 1/2 in*  
 „ present condition *in thorough repair*

Bilge Pumps, No. ( *2* ) and size *4 1/2 in*  
 Feed „ No. ( *2* ) and size *4 1/2*  
 Spare gear, if usual quantity on board Vessel *yes*  
 Fuel, where stowed *in side bunkers and a cross bunker*  
 „ space between Coal Bunkers and Boilers *from 2 1/2 to 16 forward*  
 „ for what quantity is space provided  
 Donkey Engine and Boiler *yes*  
 „ if fitted in Engine Room or on Deck *Boiler on deck, donkey in Engine room*  
 „ can pump be worked by hand *yes* *a ballast donkey*  
 „ size of pump ( *4* ) and stroke *6* *is also provided*  
 „ is hose of sufficient length to reach every part of the Vessel *yes* *and placed in*  
 No. ( *1* ) and continuation of hand pumps, if fitted in Engine Room *yes* *Engine room*

BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fitted  
athwartships, or from fore, or after end of Boiler, &c.*One tubular cylindrical boiler with 3 furnaces, dry uptake and no superheater. The boiler is fixed from its forward end*

BOILER, maker of

„ age of *one year*  
 „ when last taken out *1873*  
 „ present condition *In thorough repair*  
 „ working pressure *60 lbs per sq in*

No. of surface Blow off Cocks to each Boiler

*The engines are nearly amidships*

SCREW SHAFT length

diameter

Tunnel thickness of plating

*3/8*

height

width

if water-tight door on Engine Bulkhead.

Can each Boiler be used separately

What clear space between top of Boiler and woodwork

*16 in*

What clear space between Funnel and woodwork

Are Engine and Boiler Keelsons well connected fore and aft

*yes*Port of *Newcastle on Tyne* *3rd* day of *October* 1873

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~)  
 Screw (~~or Paddle~~) Steam Vessel "*Ullswater*" belonging to *Lancaster*  
 whereof *J. Glavin* is Master, *770* Tons Register, and *90* H.P. have been  
 carefully inspected and examined by us at *Farron on Tyne* and we found the  
 same, at this date, in good order and safe working condition.

*Palmer Shipbuilding & Iron Co. Ltd*  
*Thos L. Clark*  
 Marine Engineers.

Lloyd's Register  
Foundation

IRON 655-0258