

11955 *W*

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 directacting 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 rev*
 „ of Screw *64*
 Estimated power *90 HP nom*
 Effective power
 Diameter of Screw (~~on Paddle Wheels~~) *12-6*
 Pitch of Screw
 No. of Blades (~~on Paddles~~) *4*
 Description of Screw (~~on Paddles~~) *fixed blades*
 Holding down Bolts, size *1 1/2 dia*
 „ present condition *in thorough repair*

Bilge Pumps, No. (*2*) and size *4 1/2 dia*
 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 } *from 2 1/2 to 16 forward*
 and Boilers
 „ 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 Fired 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 fired from its forward end

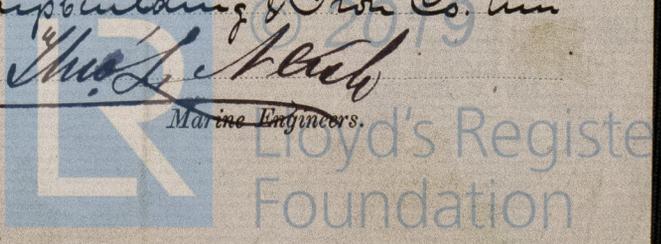
BOILER, maker of
 „ age of *one year*
 „ when last taken out *1873*
 „ present condition *In thorough repair*
 „ working pressure *60 lbs per sq in*
 No. of surface Blow off Cocks to each Boiler *one*
 The Engines are *ready amidships*
 SCREW SHAFT length diameter *8* Tunnel thickness of plating *3/8* height
 width if water-tight door on Engine Bulkhead. *yes*

Can each Boiler be used separately *—*
 What clear space between top of Boiler and woodwork } *16"*
 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 (~~Wood~~) Screw (~~on Paddles~~) Steam Vessel "*Ulleswater*" belonging to *LONDON* whereof *J. Gleis* is Master, *570 00* 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's Shipbuilding & Iron Co. Ltd
Thos L. Clark
Marine Engineers.



IRON 655-0258