

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 cylinder direct acting compound screw Engines
Two cylinders,

ENGINES, maker of *Palmer Shipbuilding Coy Limited*
,, age of *6 years*
,, last time taken out *Has not been taken out*
,, present condition *Good*
Diameter of Cylinder *38" inch*
Length of stroke *30"*
No. per minute of Engines *About 60*
,, of Screw *Same*
Estimated power *90*
Effective power
Diameter of Screw (~~or Pitch~~)
Pitch of Screw
No. of Blades (~~or Floats~~)
Description of Screw (or Floats)
Holding down Bolts, size *1 1/4"*
,, present condition *Good condition*

Bilge Pumps, No. (*2*) and size *4" diam 14 stroke*
Feed ,, No. (*2*) and size *4" 14"*
Spare gear, if usual quantity on board Vessel }
Fuel, where stowed *In side bunkers*
,, space between Coal Bunkers and Boilers } *4"*
,, for what quantity is space provided }
Donkey Engine and Boiler
,, if fitted in Engine Room or on Deck }
,, can pump be worked by hand }
,, size of pump () and stroke }
,, is hose of sufficient length to reach every part of the Vessel }
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.

One Dry bottom tubular Boiler with four furnaces and vertical Superheater Fired from fore end

BOILER, maker of *Palmer Shipbuilding Coy Limited*
,, age of *6 years*
,, when last taken out
,, present condition
,, working pressure *45 lbs per sq inch*
No. of surface Blow off Cocks to each Boiler *one*

Can each Boiler be used separately
What clear space between top of Boiler and woodwork } *3'6"*
What clear space between Funnel and woodwork } *2'0"*
Are Engine and Boiler Keelsons well connected fore and aft } *Well connected fore & aft*

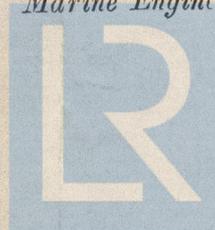
SCREW SHAFT length diameter Tunnel thickness of plating height
width if water-tight door on Engine Bulkhead.

Port *Newcastle on Tyne*, *4th* day of *May* 18 *75*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel "*Hastings*" belonging to *London* whereof *R. Doxas* is Master, *443* Tons Register, and *90* H.P. have been carefully inspected and examined by us at *Newcastle* and we found the same, at this date, in good order and safe working condition.

FOR *Palmer's Shipbuilding & Iron Company Limited*

Geo. Leitch
Marine Engineers.



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