

# 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.

There are 2 pairs of oscillating cylinders working directly on to the intermediate shafts between the paddle shafts, that is 2 cylinders to each pair of paddle wheels, set condensing, the two air pumps to each engine being worked from a crank in the intermediate shaft.

ENGINES, maker of *Earle, Ship & Engine Co (Ld)*

age of *New*

last time taken out

present condition

Diameter of Cylinder *80 1/4 inches*

Length of stroke *5 ft 0 in*

No. per minute of Engines *30 1/2*

of Screw Paddle *30 1/2*

Estimated power *750 Nom. H.P*

Effective power *To indicate 2000 H.P*

Diameter of Screw (or Paddle Wheels) *23' 0" to float centres*

Pitch of Screw

No. of Blades (or Floats) *12 to each wheel*

Description of Screw (or Floats) *Feathering floats*

Holding down Bolts, size *2 3/4 in and 1 1/8 in*

present condition *New*

Bilge Pumps, No. ( *4* ) and size *8 in diam x 2 ft - 3 in stroke*

Feed No. ( *4* ) and size *8 in diam x 2 ft - 3 in stroke*

Spare gear, if usual quantity on board Vessel *Yes*

Fuel, where stowed *Bunkers at end of Boiler Room*

space between Coal Bunkers and Boilers *1 ft 8 in*

for what quantity is space provided *52 tons*

Donkey Engine and Boiler *4 in H.P. Pump 6 1/4 in diam 10 in stroke*

if fitted in Engine Room or on Deck *in engine room*

can pump be worked by hand *No*

size of pump ( *6 1/4* ) and stroke *10 in stroke - 8 in actg*

is hose of sufficient length to reach every part of the Vessel *Yes*

No. ( *2* ) and continuation of hand pumps, if fitted in Engine Room *5 in diam x 7 in stroke 8 in actg*

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.

There are 8 Boilers, tubular, having 4 furnaces in each.

They are fired athwartships in a central stoke hole

There is a tubular superheating apparatus to each boiler and is fitted with valves that it can be used or disconnected at pleasure

BOILER, maker of *Earle, Ship & Engine Co (Ld)*

age of *New*

when last taken out

present condition *New*

working pressure *30 lbs per sq in*

No. of surface Blow off Cocks to each Boiler *One*

Can each Boiler be used separately *Yes*

What clear space between top of Boiler and woodwork *2 ft 8 in*

What clear space between Funnel and woodwork *1 ft 0 in*

Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length

diameter

Tunnel thickness of plating

height

width

if water-tight door on Engine Bulkhead.

Port of *Valer* 3<sup>rd</sup> day of *March* 1875

*We* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood)

Screw (or Paddle) Steam Vessel *Bessemer* belonging to *the Bessemer Co.*

whereof is Master, *781 2/100* Tons Register, and *750* N.H.P. have been

carefully inspected and examined by *us* at *Valer* and *us* found the

same, at this date, in good order and safe working condition.

*for Earle's Shipbuilding, & Eng. Co. Ltd*  
*for M.S. Products*

Marine Engineers



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Foundation

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