

Norman S.S. 13507 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.

*Horizontal, Direct Acting, Compound, four-
cylinders surface condenser.*

ENGINES, maker *J. Sumner & Son*

„ age *8 years* Compounded *1874 J. Watt & Co.*

„ last time taken out *1874*

„ present condition *good*

Diameter of Cylinder *two 33" and two 49"*

Length of stroke *33"*

No. per minute of Engines *40 rev.*

„ of Screw *40*

Estimated power *200*

Effective power *about 850*

Diameter of Screw (~~or Paddle Wheels~~) *16' 6"*

Pitch of Screw *24 feet*

No. of Blades (~~or Floats~~) *4*

Description of Screw (~~or Floats~~) *Common*

Holding down Bolts, size *1 1/2"*

„ present condition *good*

Bilge Pumps, No. (*1*) and size *3 1/2* dia

Feed „ No. (*1*) and size *3 1/2* dia

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

Fuel, where stowed *Bunkers - athwartships*

„ space between Coal Bunkers and Boilers *20 inches*

„ for what quantity is space provided *300 tons*

Donkey Engine and Boiler *two donkey Engine below,*

„ if fitted in Engine Room or on Deck *Boiler on deck*

„ can pump be worked by hand *Yes*

„ size of pump (*3*) and stroke *12 inches*

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

No. (*4*) and continuation of hand pumps, if fitted in Engine Room *two 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.

*Four cylindrical tubular Boilers, 2 furnaces in each,
firing athwartships, and not fitted with any
Superheater*

BOILER, maker of *J. Watt & Co.*

„ age of *New - 1874*

„ when last taken out

„ present condition *good*

„ working pressure *60 lbs.*

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 *4 feet*

What clear space between Funnel and woodwork *6 feet*

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

SCREW SHAFT length *about 80ft* diameter *11 inches* Tunnel thickness of plating *3/8* inch height *4' 3"*

width *4 feet* if water-tight door on Engine Bulkhead. *Yes*

Port *London* *10* day of *Nov* 18 *74*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel *Norman* belonging to *W. B. Telegraphic Co.* whereof *John H. Jenkins* is Master, *1371* Tons Register, and *200* H.P. have been carefully inspected and examined by me at *London* and *I* found the same, at this date, in good order and safe working condition.

William Parker