

# 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.

*Direct Acting inverted Cylinders*

ENGINES, maker of *J. & F. Thomson*  
 „ age of *new*  
 „ last time taken out  
 „ present condition *new*  
 Diameter of Cylinder *16" and 8 1/2"*  
 Length of stroke *3'-9"*  
 No. per minute of Engines  
 „ of Screw  
 Estimated power *350*  
 Effective power  
 Diameter of Screw (or Paddle Wheels) *14'-2"*  
 Pitch of Screw *23'-0"*  
 No. of Blades (or Floats) *4*  
 Description of Screw (or Floats)  
 Holding down Bolts, size *1 1/2"*  
 „ present condition *new*

Bilge Pumps, No. ( *2* ) and size *6"*  
 Feed „ No. ( *2* ) and size *4 1/4"*  
 Spare gear, if usual quantity on board Vessel  
 Fuel, where stowed *on sides of Engine room.*  
 „ space between Coal Bunkers and Boilers *12"*  
 „ for what quantity is space provided *800 tons*  
 Donkey Engine and Boiler *2 1/2*  
 „ if fitted in Engine Room or on Deck *on Deck*  
 „ can pump be worked by hand  
 „ size of pump ( *7"* ) and stroke *12"*  
 „ is hose of sufficient length to reach every part of the Vessel *Yes*  
 No. ( *1* ) and continuation of hand pumps, if fitted in Engine Room *5" and 10" strokes*

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.

*Horizontal multitubular boiler. Two twelve furnaces, 1 Superheater to each boiler fired at both ends fore & aft*

BOILER, maker of *J. & F. Thomson*  
 „ age of *new*  
 „ when last taken out  
 „ present condition *new*  
 „ working pressure  
 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 *6' 3"*  
 What clear space between Funnel and woodwork *3 ft*  
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

SCREW SHAFT length *24'-2 3/4"* diameter *13 1/2"* Tunnel thickness of plating *5/16"* height *4' 9"*  
 width *4 ft* if water-tight door on Engine Bulkhead. *No*

Port *Elavur* 14<sup>th</sup> day of *August* 18 *74*

*Mr* hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Viking* belonging to *J. & F. Thomson* whereof *Robert Cannon* is Master, *2505* Tons Register, and *350* H.P. have been carefully inspected and examined by *us* at *Elavur* and *we* found the same, at this date, in good order and safe working condition.

*John James Thomson*

Marine Engineers.



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IRON PLANS

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