

ENGINEER'S CERTIFICATE. ~~11620~~

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.

Compound, Surface condensing, Direct Acting, Inverted Cylinders Marine screw Engines.

ENGINES; maker of *Almeida Donald & Co.*
 age of *new*
 last time taken out _____
 present condition *new*
 diameter of Cylinders *32" & 55"*
 length of stroke *33 inches*
 number of Engines *about 65*
 diameter of Screw _____
 rated power *135 H.P.*
 effective power *about 600 H.P.*
 diameter of Screw (or Paddle Wheels) *15 feet*
 length of Screw *16.3" to 17 ft*
 number of Blades (or Floats) *four*
 description of Screw (or Floats) *loose steel blades*
 lashing down Bolts, size *1 1/4*
 present condition *new*

Bilge Pumps, No. (*2*) and size *3 1/2" dia.*
 Feed " No. (*2*) and size *3 1/2"*
 Spare gear, if usual quantity on board Vessel } *Usual quantity*
 Fuel, where stowed *Foremast ship bunker*
 " space between Coal Bunkers and Boilers } *8 feet 4 ins*
 " for what quantity is space provided _____
 Donkey Engine and Boiler *- Both*
 " if fitted in Engine Room or on Deck } *Engine room*
 " can pump be worked by hand *no*
 " size of pump (*4*) and stroke *8 ins*
 " 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 } *Yes.*

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 force, or after end of Boiler, &c.

2 Tubular Boilers, 2 Furnaces in each Boiler, Superheated between Boilers, Fluid from forward end.

BOILER, maker of *H. Wallace & Co.*
 age of *new*
 when last taken out _____
 present condition *new*
 working pressure *65 lbs*
 number of surface Blow off Cocks to each Boiler } *one*
 STEAM SHAFT length *82' 6"* diameter *9 in* Tunnel, thickness of plating _____ height *5' 9"*
 width *5 feet* if water-tight door on Engine Bulkhead. *Yes.*

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 } *3 feet.*
 Are Engine and Boiler Keelsons well connected fore and aft } *yes*

Port of *Greenock* *25th* day of *April* 1873

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Steam Vessel *Silvio Diniz* belonging to *Compania Proprieta* is Master, *1107.42* Tons Register, and *135* H.P. have been carefully inspected and examined by *us* at *44 & 55 Greenock* and *We* found the same, at this date, in good order and safe working condition.

Closed 11 July

