

AD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE.

11264 In

Following is a true Account of the Particulars of the Machinery and Boilers:—

ENES.—Here state description of Engines, whether Direct Acting or Geared, Inverted, Horizontal, Diagonal, or Oscillating Cylinders; No. of Cylinders, &c.

Direct Acting, Inverted, Compound, Surface Condensing  
Screw Engines with two Cylinders

Maker of *W & J. Almond*  
of *new*  
time taken out  
present condition  
of Cylinder *18" x 34"*  
stroke *24"*  
minute of Engines *80*  
Screw *80*  
power *46*  
power *180*  
of Screw (or Paddle Wheels) *9 ft*  
Screw *11 ft 6 in*  
ades (~~or~~ Floats) *4*  
on of Screw (~~or~~ Floats) *common*  
down Bolts, size *1"*  
present condition *good*

Bilge Pumps, No. ( *1* ) and size *3 1/2 in*  
Feed ,, No. ( *1* ) and size *3 1/2 in*  
Spare gear, if usual quantity on } *yes*  
board Vessel  
Fuel, where stowed *Bunkers*  
,, space between Coal Bunkers } *4 in*  
and Boilers  
,, for what quantity is space provided *4.5 tons*  
Donkey Engine and Boiler *yes*  
,, if fitted in Engine Room or } *Engine Room*  
on Deck  
,, can pump be worked by hand *yes*  
,, size of pump ( *3 1/2 in* ) and stroke *7 1/2 in*  
,, is hose of sufficient length to } *yes*  
reach every part of the Vessel  
No. ( ) and continuation of hand }  
pumps, if fitted in Engine Room }

ER.—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 tubular Boiler with two furnaces, fired from fore end.

Maker of *J. C. Cunningham*  
of *new*  
when last taken out  
present condition *good*  
working pressure *65 lbs*  
surface Blow off Cocks to } *one*  
h Boiler }

Can each Boiler be used separately  
What clear space between top of } *1 ft 6 in*  
Boiler and woodwork  
What clear space between Funnel } *2 ft 6 in*  
and woodwork  
Are Engine and Boiler Keelsons } *yes*  
well connected fore and aft }

SHAFT length *46 ft 6 in* diameter *6 1/4 in* Tunnel, thickness of plating *3/16* height *4 ft*  
width *3 ft 6 in* if water-tight door on Engine Bulkhead.

Port of *Shields* 28<sup>th</sup> day of *January* 1873

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or~~ Wood) Steam Vessel "*Birling*" belonging to *London* is Master, *94.72* Tons Register, and *46* H.P. have been fully inspected and examined by *me* at *South Shields* and have found the at this date, in good order and safe working condition.

per pro *W & J. Almond*  
*J. Baird*  
Marine Engineers.