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# 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:—

of the S.S. "Petrel"

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

A pair of Direct acting Compound surface  
Condensing Engines with two Cylinders

ENGINES, maker of Hall Russell & Co  
 „ age of new  
 „ last time taken out —  
 „ present condition Good  
 Diameter of Cylinder 26 1/2 x 48"  
 Length of stroke 2' 6"  
 No. per minute of Engines 65  
 „ of Screw 65  
 Estimated power 99 H.P.  
 Effective power 400 H.P.  
 Diameter of Screw (or Paddle Wheels) 12' 4"  
 Pitch of Screw 15' 6"  
 No. of Blades (or Floats) Four  
 Description of Screw (or Floats) One screw  
 Holding down Bolts, size Ample  
 „ present condition Good

Bilge Pumps, No. ( One ) and size 4 1/2 x 2' 6"  
 Feed „ No. ( One ) and size 4 1/2 x 2' 6"  
 Spare gear, if usual quantity on board Vessel } Yes  
 Fuel, where stowed In Bunkers  
 „ space between Coal Bunkers } Ample  
 „ for what quantity is space provided About 100 tons  
 Donkey Engine and Boiler Yes  
 „ if fitted in Engine Room or on Deck } Engine Room  
 „ can pump be worked by hand Yes  
 „ size of pump ( 4 ) and stroke 10"  
 „ is hose of sufficient length to reach every part of the Vessel } Yes  
 No. ( One ) 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 fore, or after end of Boiler, &c.

One large cylindrical tubular boiler with three furnaces, large steam chest and fired from after end —

BOILER, maker of Hall Russell & Co  
 „ age of new  
 „ when last taken out —  
 „ present condition Good  
 „ working pressure 40 lbs  
 No. of surface Blow off Cocks to each Boiler } One

Can each Boiler be used separately —  
 What clear space between top of Boiler and woodwork } No wood work on top of boiler  
 What clear space between Funnel and woodwork } Ample  
 Are Engine and Boiler Keelsons well connected fore and aft } Yes

SCREW SHAFT length 65 feet diameter 9 inches Tunnel, thickness of plating 1/4 height 4 feet  
 width 3 feet if water-tight door on Engine Bulkhead. Yes

Port Aberdeen 25 day of Dec 1876

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) new (or Paddle) Steam Vessel Petrel belonging to G.S. & Co  
 thereof — Hurst is Master, Tons Register, and 99 H.P. have been  
 carefully inspected and examined by us at Aberdeen and we found the  
 same, at this date, in good order and safe working condition.

Hall Russell & Co.

Marine Engineers.