

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE. 11259

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 Horizontal Compound Engines

Makers, maker of *David Rowan*
 age of *new*
 last time taken out
 present condition
 Diameter of Cylinder *HP 25" + LP 44"*
 Diameter of stroke *21 inches*
 Revolutions per minute of Engines *90 revols*
 Diameter of Screw
 Rated power *90 horse power nominal*
 Indicated power *300*
 Diameter of Screw (or Raddle Wheels) *9 ft 9 in*
 Diameter of Screw *12 feet*
 Blades (or Floats) *4*
 Diameter of Screw (or Floats)
 Down Bolts, size
 Present condition *new*

Bilge Pumps, No. (*2*) and size *2 1/2"*
 Feed ,, No. (*2*) and size *2 3/8"*
 Spare gear, if usual quantity on board Vessel
 Fuel, where stowed *Each Side of Boilers Forward*
 ,, space between Coal Bunkers and Boilers *6 inches*
 ,, for what quantity is space provided *130 tons*
 Donkey Engine and Boiler *Donkey Engine + Boiler*
 ,, if fitted in Engine Room or on Deck *Engine room*
 ,, can pump be worked by hand *no*
 ,, size of pump () and stroke
 ,, is hose of sufficient length to reach every part of the Vessel *Yes*
 No. () and continuation of hand pumps, if fitted in Engine Room

BOILERS. 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.

Round Tubular Boiler, 3 furnaces fired aft, fitted with Steam Dome

Makers, maker of *David Rowan*
 age of *new*
 last taken out
 present condition
 Working pressure *60 lbs*
 Blow off Cocks to Boiler *Surface blow off*
 length *21 ft 1 in* diameter *4 1/2* Tunnel, thickness of plating height *5 feet*
3 ft 7 in if water-tight door on Engine Bulkhead. *door hot water tight.*

Can each Boiler be used separately
 What clear space between top of Boiler and woodwork *16 inches*
 What clear space between Funnel and woodwork *about 12 inches*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes*

Port *Glasgow* 31st day of *March* 18 *73*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) (or other material) Steam Vessel *Sir John Lawrence* belonging to *J.A. Shepherd Esq* is Master, *Balding* Tons Register and *H.P.* have been inspected and examined by me at *Glasgow* and I found the date, in good order and safe working condition.

David Rowan
Glasgow
 Marine Engineers.