

12180.4

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.

1 pair direct acting inverted cylinder Engines (Compound)

ENGINES, maker of David Rowan
age of New
last time taken out
present condition Good
Diameter of Cylinder 20 inches + 36 inches
Length of stroke 24 inches
No. per minute of Engines 70
of Screw 70
Estimated power 50 H.P.
Effective power
Diameter of Screw 8" 9"
Pitch of Screw 11" 6"
No. of Blades (or Floats) 4
Description of Screw (or Floats) in one Casting (Right hand)
Holding down Bolts, size 7/8"
present condition New
Bilge Pumps, No. (1) and size 2 3/4" dia Stroke 14"
Feed No. (1) and size 2 3/4" " 14"
Spare gear, if usual quantity on board Vessel yes
Fuel, where stowed in Bunkers
space between Coal Bunkers and Boilers 9"
for what quantity is space provided
Donkey Engine and Boiler
if fitted in Engine Room or on Deck in Engine Room
can pump be worked by hand 4" yes
size of pump (2 3/4") and stroke 4"
is hose of sufficient length to reach every part of the Vessel yes
No. () and continuation of hand pumps, if fitted in Engine Room

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.

one Round Tubular Boiler 11' 0" dia + 9' 6" long fitted with Superheater
(2) 3' 3" furnaces fired from aft end of Boiler

BOILER, maker of David Rowan
age of New
when last taken out
present condition New
working pressure 60 lbs
No. of surface Blow off Cocks to each Boiler 1 Boiler (1 Surface Cock)
Can each Boiler be used separately only 1 Boiler
What clear space between top of Boiler and woodwork 2'-0"
What clear space between Funnel and woodwork 18"
Are Engine and Boiler Keelsons well connected fore and aft yes
SCREW SHAFT length 45 feet diameter 6 1/2" Tunnel thickness of 2" Wood height 2'-0" above Shafting
width 22" open below if water-tight door on Engine Bulkhead. no

Port of Glasgow 5th day of December 1873

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel Jura belonging to John Bell Esq whereof Roberts is Master, 362 Tons Register, and H.P. have been carefully inspected and examined by me at Glasgow and I found the same, at this date, in good order and safe working condition.

David Rowan
211 North Street Glasgow
Marine Engineers.

Lloyd's Register Foundation