

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.

Reversed, Direct Acting, 2 Cylinders

ENGINES, maker of *James Gordon & Co*
 ,, age of *New*
 ,, last time taken out *"*
 ,, present condition *"*
 Diameter of Cylinder *33 and 60 inches*
 Length of stroke *39 "*
 No. per minute of Engines *60 rev.*
 ,, of Screw *60 "*
 Estimated power *170 HP nominal*
 Effective power *650 indicated*
 Diameter of Screw (or Paddle Wheels) *14 1/2 feet*
 Pitch of Screw *Variable*
 No. of Blades (or Floats) *4 Blades*
 Description of Screw (or Floats) *Saper blades*
 Holding down Bolts, size *1 3/8" diameter*
 ,, present condition *New*

Bilge Pumps, No. (*1*) and size *5 1/2"*
 Feed ,, No. (*1*) and size *5 1/2"*
 Spare gear, if usual quantity on board Vessel *Yes*
 Fuel, where stowed *in Side Bunkers*
 ,, space between Coal Bunkers and Boilers *10 inches at nearest part*
 ,, for what quantity is space provided *200 tons*
 Donkey Engine and Boiler *Yes*
 ,, if Fitted in Engine Room or on Deck *in Engine Room*
 ,, can pump be worked by hand *Yes*
 ,, size of pump (*14"*) and stroke *9" double acting*
 ,, is hose of sufficient length to reach every part of the Vessel *Yes*
 No. (*1*) and condition of hand pumps, if fitted in Engine Room *in Good Order*

Another Donkey engine also fitted for pumping Ship Pump 9" dia. 12" stroke double acting.

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 double Boiler with 2 furnaces, 3 fire Bratt
 2 Stroke hole Superheater. Boiler Tubular, Shell Circular.*

BOILER, maker of *James Gordon & Co*
 ,, age of *New*
 ,, when last taken out *"*
 ,, present condition *"*
 ,, working pressure *60 lbs*
 No. of surface Blow off Cocks to each Boiler *one Surface one Bottom*

Can each Boiler be used separately
 What clear space between top of Boiler and woodwork *Some feet*
 What clear space between Funnel and woodwork *18" at nearest part*
 Are Engine and Boiler Keelsons well connected fore and aft *Yes.*

SCREW SHAFT length *72 feet* diameter *10 1/2"* Tunnel, thickness of plating *5/16" & 3/8"* height *about 5 feet*
 width *3 feet 6 ins.* if water-tight door on Engine Bulkhead *Yes.*

Port of Glasgow 30 day of August 18 70

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "*Alholl*" belonging to *Leith* whereof *Butecher* is Master, *1395* Tons Register, and *170* H.P. have been carefully inspected and examined by *us* at *10 1/2 Glasgow* and *we* found the same, at this date, in good order and safe working condition.

James Gordon & Co
Glasgow
 Marine Engineers.

IRON 502-0314