

11583 Iron

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.

Two in number of the ordinary oscillating type

ENGINES, maker of *Mac Nat 1860*
 „ age of *made in 1860*
 „ last time taken out
 „ present condition *good*
 Diameter of Cylinder *43 inches*
 Length of stroke *48 inches*
 No. per minute of Engines *thirty*
 „ of Screw
 Estimated power *120 H.P. nominal*
 Effective power
 Diameter of ~~Screw~~ (or Paddle Wheels) *16 feet 6 in*
 Pitch of Screw
 No. of ~~Blades~~ (or Floats) *nine*
 Description of ~~Screw~~ (or Floats) *feathering*
 Holding down Bolts, size *1 1/4 diameter*
 „ present condition *good*

Bilge Pumps, No. (*2*) and size *6" diam*
 Feed „ No. (*2*) and size *6" diam*
 Spare gear, if usual quantity on board Vessel *on crank pin*
 Fuel, where stowed *between Engines & Boilers*
 „ space between Coal Bunkers and Boilers *7 feet*
 „ for what quantity is space provided *about 110 Tons*
 Donkey Engine and Boiler *both*
 „ if fitted in Engine Room or on Deck *Boiler on deck Engine below*
 „ can pump be worked by hand *yes*
 „ size of pump (*3 1/2*) and stroke *8 inches*
 „ is hose of sufficient length to reach every part of the Vessel *yes - 100 feet*
 No. (*1*) and continuation of hand *In Engine room and*
 pumps, if fitted in Engine Room *worked from deck -*

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 - ordinary return tubular Boiler - having four furnaces - and fired from forward End

BOILER, maker of *Robert Steele 1860*
 „ age of *new*
 „ when last taken out
 „ present condition *new*
 „ working pressure *twenty five pounds*
 No. of surface Blow off Cocks to each Boiler *one*

Can each Boiler be used separately *only one*
 What clear space between top of Boiler and woodwork *no wood work on top*
 What clear space between Funnel and woodwork *five feet*
 Are Engine and Boiler Keelsons well connected fore and aft *yes -*

SCREW SHAFT length _____ diameter _____ Tunnel, thickness of plating _____ height _____
 width _____ if water-tight door on Engine Bulkhead.

Port *of Greenock* *25th* day of *June* 18*73*

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) *Steam* Vessel *St Clair of the Isles* belonging to *the Western Isles Steam Packet Co* whereof *Duncan Colquhoun* is Master, *220.58* Tons Register, and *120* H.P. have been carefully inspected and examined by me at *Greenock* and I found the same, at this date, in good order and safe working condition.

William Brunton

Marine Engineers.

IRON 454-0350