

LOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE.

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.

Compound direct acting having two Inverted Cylinders 10785 Iron

Maker of *Kemp & Home*
 Name of *New*
 Last time taken out *—*
 Present condition *—*
 Diameter of Cylinder *16 & 29"*
 Length of stroke *22"*
 Revolutions per minute of Engines *85*
 Diameter of Screw *85*
 Rated power *40*
 Indicated power *180*
 Diameter of Screw (or Paddle Wheels) *9' 0"*
 Diameter of Screw *11' 0"*
 Number of Blades (or Floats) *3*
 Position of Screw (or Floats) *Common*
 Diameter of down Bolts, size *1"*
 Present condition *New*

Bilge Pumps, No. (*1*) and size *2 3/4" x 13"*
 Feed " No. (*1*) and size " "
 Spare gear, if usual quantity on board Vessel } *Yes*
 Fuel, where stowed *in Bunker at ship's side*
 " space between Coal Bunkers and Boilers } *7"*
 " for what quantity is space provided *42 tons*
 Donkey Engine and Boiler *two engines & one Boiler*
 " if fitted in Engine Room or on Deck } *in engine Room*
 " can pump be worked by hand *No*
 " size of pump *3 & 2"* and stroke *7 & 4" respectively*
 " is hose of sufficient length to reach every part of the Vessel } *Yes*
 No. (*1*) and continuation of hand pumps, if fitted in Engine Room } *Yes*

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 two furnaces, Steam from on top, Fire at after end

Maker of *D. Davidson*
 Name of *New*
 When last taken out *—*
 Present condition *—*
 Working pressure *70 lb*
 Surface Blow off Cocks to each Boiler } *1*
 Shaft length *40* diameter *6"* Tunnel, thickness of plating
 Width if water-tight door on Engine Bulkhead.

Can each Boiler be used separately
 What clear space between top of Boiler and woodwork } *2 ft*
 What clear space between Funnel and woodwork } *6"*
 Are Engine and Boiler Keelsons well connected fore and aft } *Yes*

Port of *Glasgow* *14* day of *November* 18 *72*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) ~~(or Paddle)~~ Steam Vessel *Harlingen* belonging to *Leith* *Wm Barneton* is Master, *14660* Tons Register, and *40* H.P. have been inspected and examined by us at *Glasgow* and we found the same at this date, in good order and safe working condition.

Kemp & Home
Glasgow

Marine Engineers.