

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.

Direct Acting Compound 2 Cylinders

ENGINES, maker of Sunderland Engine Works. age of New last time taken out present condition New Diameter of Cylinder H.P. 28 I.P. 54 Length of stroke 2'-6" No. per minute of Engines 66 Revolutions of Screw 66 Estimated power 120 N.H.P. Effective power 440 I.H.P. Diameter of Screw (or Paddle Wheels) 13'-8" Pitch of Screw 15'-0" No. of Blades (or Floats) 4 Description of Screw (or Floats) Common Screw Holding down Bolts, size 1 1/2" diameter present condition New

Bilge Pumps, No. (2) and size 3 1/2" dia 2'-6" stroke Feed No. (2) and size 3 1/2" - 2'-6" Spare gear, if usual quantity on board Vessel Fuel, where stowed Fore & Aft Bunkers in Engine & Boiler space between Coal Bunkers and Boilers 1'-0" space for what quantity is space provided Donkey Engine and Boiler one 6" water Ballast & one 1 1/2" boiler pump if fitted in Engine Room or on Deck boiler on deck, engine in engine room can pump be worked by hand Yes size of pump (4") and stroke 6" is hose of sufficient length to reach every part of the Vessel 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 fore, or after end of Boiler, &c.

2 Tubular Boilers with 2 Furnaces each, fired from Forward end. No Super heater

BOILER, maker of Sunderland Engine Works age of New when last taken out present condition New working pressure 70 lbs per sq inch No. of surface Blow off Cocks to each Boiler 1 surface 1 bottom

Can each Boiler be used separately Yes What clear space between top of Boiler and woodwork 1'-0" What clear space between Funnel and woodwork 5'-0" Are Engine and Boiler Keelsons well connected fore and aft Yes

SCREW SHAFT length 101'-6" diameter 9" Tunnel thickness of plating 1/4" height 6'-0" width 4'-0" if water-tight door on Engine Bulkhead. Yes

Port Sunderland 31st day of June 1874

hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel No 201 S.S. belonging to James Laing whereof is Master, Tons Register, and 120 H.P. have been carefully inspected and examined by us at Sunderland and we found the same, at this date, in good order and safe working condition.

Friend on behalf of the North Eastern Marine Engineering Company Limited. Marine Engineers.

Walter Scott Lloyd's Register Foundation