

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.

The engines are inverted, direct acting, compound, with surface condenser, one high & one low pressure cylinder.

ENGINES, maker of Palmer's Shipbuilding,
age of new
last time taken out -
present condition -
Diameter of Cylinder 40 & 80.
Length of stroke 41.
No. per minute of Engines 66 revs
of Screw 66
Estimated power 290 H.P. iron
Effective power 1400 - iron
Diameter of Screw 18.0
Pitch of Screw 17.0 to 21.0.
No. of Blades 4
Description of Screw movable
Holding down Bolts, size 1 1/2" diam
present condition new.

Bilge Pumps, No. (2) and size 6" diam. 2.3" stroke
Feed No. (2) and size 6" . 2.3 ..
Spare gear, if usual quantity on board Vessel yes
Fuel, where stowed In order bunkers along engine room and in two close
space between Coal Bunkers and Boilers bunkers, fore & aft of boiler
for what quantity is space provided 450 tons
Donkey Engine and Boiler are both provided a ballast
if fitted in Engine Room or Donkey in iron iron
on Deck donkey is
can pump be worked by hand Boiler in deck also pump
size of pump (6) and stroke 8" iron
is hose of sufficient length to in engine
reach every part of the Vessel room. yes
No. (1) and continuation of hand pumps, if fitted in Engine Room yes -

BOILER.—Here state description of Boiler, and No.; if Tabular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if iron at water-tight, or from force, or after end of Boiler, &c.

2 cylindrical tubular double ended boilers with 12 circular furnaces dry uptakes with two annular superheaters on top inclining towards base of funnel, which is above the centre of the boilers. The boilers are fired fore and aft.

BOILER, maker of Palmer's Shipbuilding, Wm Co. Lin Can each Boiler be used separately yes
age of new
when last taken out -
present condition -
working pressure 75 lbs pressure in one.
No. of surface Blow off Cocks to each Boiler 1
SCREW SHAFT length 93. 2. diameter 12 1/2 x 13 1/2 The tunnel is double plated Tunnel thickness of plating 5/8" each height 5.0 & 7.2.
width 4.3. if water-tight door on Engine Bulkhead yes; the tunnel is water-tight also

Port Newcastle on Tyne 3rd day of October 1873

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (-) Screw (-) Steam Vessel "Niederland" belonging to Antwerp whereof M. W. James is Master, 10,930 Tons Register, and 290 H.P. have been carefully inspected and examined by us at Jarrow on Tyne and we found the same, at this date, in good order and safe working condition.

Palmer's Shipbuilding & Iron Co. Ltd

Thos. E. Blakie



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Lloyd's Register
Foundation