

Iron No 12718

S.S. "Dione" Report No 10860

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.

Surface Condensing Engines
Cylinders, No. 2

Direct Acting

ENGINES, maker of *North Eastern Marine Co Limited*
 „ age of *Made year 1868*
 „ last time taken out
 „ present condition *Good*
 Diameter of Cylinder *38*
 Length of stroke *30*
 No. per minute of Engines *66*
 „ of Screw *66*
 Estimated power *90*
 Effective power *360*
 Diameter of Screw (or Paddle Wheels) *12' 0*
 Pitch of Screw *12 to 15*
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *Common screw*
 Holding down Bolts, size *1 1/4*
 „ present condition *good*

Bilge Pumps, No. (*1*) and size *3"* *30 stroke*
 Feed „ No. (*1*) and size *3* *30 do*
 Spare gear, if usual quantity on } *Yes*
 board Vessel
 Fuel, where stowed *Fore & aft Bunkers*
 „ space between Coal Bunkers } *1-0*
 and Boilers
 „ for what quantity is space provided *140 tons.*
 Donkey Engine and Boiler *Yes*
 „ if fitted in Engine Room or } *Engine room*
 on Deck
 „ can pump be worked by hand *Yes*
 „ size of pump (*4* in) and stroke *6 in*
 „ is hose of sufficient length to } *Yes*
 reach every part of the Vessel
 No. (*1*) and continuation of hand } *Engine Room*
 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 force, or after end of Boiler, &c.

One Tubular Boiler. Furnaces 3 in number no superheater
Fired from forward end of Boiler

BOILER, maker of *North Eastern Marine Engine Co Limited* Can each Boiler be used separately

„ age of *1868*
 „ when last taken out
 „ present condition *Good*
 „ working pressure *25 lbs*
 No. of surface Blow off Cocks to } *1*
 each Boiler }

What clear space between top of } *1-9*
 Boiler and woodwork
 What clear space between Funnel } *1-9*
 and woodwork
 Are Engine and Boiler Keelsons } *Yes*
 well connected fore and aft }

SCREW SHAFT length *63.0* diameter *7* Tunnel thickness of plating *3/8* height *4 feet 6 in*
 width *3 ft 6 in* if water-tight door on Engine Bulkhead. *yes*

Port of *Sunderland* 20th day of *April* 1874

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Dione"* belonging to *Cardiff* whereof *Lucock* is Master, *537* Tons Register, and *90* 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.

For and on behalf of the North Eastern
Marine Engineering Company
Limited.

Marine Engineers.

Walter Seal
Lloyd's Register
Foundation