

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.

Inverted direct acting combined high and low pressure Engines with one high and one low pressure Cylinder, Surface Condensing

ENGINES, maker of *Thompson Boyd & Co*
 „ age of *New*
 „ last time taken out _____
 „ present condition *New*
 Diameter of Cylinder *37 & 40*
 Length of stroke *8.0*
 Revolutions per minute of Engines *55*
 „ of Screw _____
 Estimated power *250 HP*
 Effective power *1000 Indicated HP*
 Diameter of Screw (or Paddle Wheels) *16.6*
 Pitch of Screw *17.0 to 19.5*
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *Ordinary*
 Holding down Bolts, size *3/4 dia*
 „ present condition *New*

Bilge Pumps, No. (*2*) and size *4 3/4 dia* }
 Feed „ No. (*2*) and size *4 3/4 dia* } *1.4 Stroke*
 Spare gear, if usual quantity on board Vessel } *Extra quantity*
 Fuel, where stowed *In Bunkers*
 „ space between Coal Bunkers and Boilers } *12*
 „ for what quantity is space provided *400 Tons*
 Donkey Engine and Boiler *Horizontal Boiler on deck*
 „ if fitted in Engine Room or on Deck } *Donkey in Engine Room*
 „ can pump be worked by hand *Yes*
 „ size of pump () and stroke *6 1/2 dia Stroke 10*
 „ is hose of sufficient length to reach every part of the Vessel } *Yes*
 No. (*✓*) and continuation of hand pumps, if fitted in Engine Room } *Hand pump in Engine Room, 4 dia Stroke 5*

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.

4 tubular Boilers with two furnaces in each, fired athwartships

BOILER, maker of *Thompson Boyd & Co*
 „ age of *New*
 „ when last taken out _____
 „ present condition *New*
 „ working pressure *70 lbs*
 No. of surface Blow off Cocks to each Boiler } *One surface blow off*
 } *One Boiler blow off*
 SCREW SHAFT length *115.0* diameter *10 3/4* Tunnel, thickness of plating *3/16* height *5.0*
 width *2.9* if water-tight door on Engine Bulkhead. *Yes*

Can each Boiler be used separately *Yes*
 What clear space between top of Boiler and woodwork } *12.0*
 What clear space between Funnel and woodwork } *3.0*
 Are Engine and Boiler Keelsons well connected fore and aft } *Yes*

Port *Newcastle Tyne* day of *6 Oct* 18 *71*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel "*Terror*" belonging to *James Cairny* whereof *W. Nisbet* is Master, *Tons Register*, and *250 H.P.* have been carefully inspected and examined by us at *London* and *we* found the same, at this date, in good order and safe working condition.

Thompson Boyd & Co

Marine Engineers.