

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 Compound Surface Condensing
Screw Engines*

ENGINES, maker of *Thompson & Co*
 „ age of *new*
 „ ~~last time taken out~~
 „ present condition *New*
 Diameter of Cylinder *2 1/2 x 40*
 Length of stroke *24*
 No. per minute of Engines *75*
 „ of Screw *75*
 Estimated power *65*
 Effective power *290*
 Diameter of Screw (or Paddle Wheels) *9" 9"*
 Pitch of Screw *13" 0" to 15" 0" at low 10" 0"*
 No. of Blades (or Floats) *4*
 Description of Screw (or Floats) *Right handed*
 Holding down Bolts, size *2 1/4 dia*
 „ present condition *Good*

Bilge Pumps, No. (*1*) and size *3/4 x 14 Stroke*
 Feed „ No. (*1*) and size *3/4 " "*
 Spare gear, if usual quantity on } *yes*
 board Vessel }
 Fuel, where stowed *in Side Bunkers*
 „ space between Coal Bunkers } *9*
 and Boilers }
 „ for what quantity is space provided *30 tons*
 Donkey Engine and Boiler *no Donkey Boiler*
 „ if fitted in Engine Room or } *engine Room*
 on Deck }
 „ can pump be worked by hand *yes*
 „ size of pump (*6*) and stroke *11 3/4*
 „ is hose of sufficient length to } *yes*
 reach every part of the Vessel }
 No. (*1*) 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.

*1 Cylindrical Multitubular Boiler 2 Furnaces
Fired from after end of boiler. no superheating apparatus*

BOILER, maker of *Newcastle Thompson & Co*
 „ age of *new*
 „ when last taken out
 „ present condition *New*
 „ working pressure *65*
 No. of surface Blow off Cocks to } *1*
 each Boiler }

Can each Boiler be used separately *one boiler*
 What clear space between top of } *9' clear with land*
 Boiler and woodwork }
 What clear space between Funnel } *2 feet*
 and woodwork }
 Are Engine and Boiler Keelsons } *yes*
 well connected fore and aft }

SCREW SHAFT length *53" 8/4* diameter *4"* Tunnel thickness of plating height
 width if water-tight door on Engine Bulkhead.

Newcastle
 Port *April 17th* day of *1875*

we hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood)
 Screw (or Paddle) Steam Vessel *Sogru* belonging to *Bergen*
 whereof *P. J. Trauer* is Master, *213.17* Tons Register, and *65* H.P. have been
 carefully inspected and examined by us at *Wallingborough* and we found the
 same, at this date, in good order and safe working condition.

Thompson & Co

Marine Engineers.



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Foundation