

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 *21 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 *15" 0" to 15" 0" at 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 1/4 x 14 Stroke*
Feed ,, No. (*1*) and size *3 1/4 " "*
Spare gear, if usual quantity on board Vessel *yes*
Fuel, where stowed *in Side Bunkers*
,, space between Coal Bunkers and Boilers *9*
,, for what quantity is space provided *30 tons*
Donkey Engine and Boiler *no Donkey Boiler*
,, if fitted in Engine Room or on Deck *engine Room*
,, can pump be worked by hand *yes*
,, size of pump (*6*) and stroke *14 3/4*
,, is hose of sufficient length to reach every part of the Vessel *yes*
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 force, 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 each Boiler *1*

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

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. Kramer* is Master, *213.17* Tons Register, and *65* H.P. have been
carefully inspected and examined by us at *Wallengren Syke* and we found the
same, at this date, in good order and safe working condition.

Thompson & Co

Marine Engineers.



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Foundation