

Report No. 3760

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.

Direct acting Compound Screw Engines
with Inverted Cylinders & surface condenser

ENGINES, maker of *Black Hawthorn & Co*
,, age of *new*
,, last time taken out
,, present condition *quite satisfactory*
Diameter of Cylinders *25" & 48"*
Length of stroke *30*
No. per minute of Engines *about 60*
,, of Screw
Estimated power *Nominal 90 Horse*
Effective power *about 360 indicated Horse*
Diameter of Screw (or Paddle Wheels) *12' 6"*
Pitch of Screw *about 17 feet*
No. of Blades (or Floats) *four*
Description of Screw (or Floats) *increasing pitch*
Holding down Bolts, size *5 bolts 2" diam & 14 bolts 1" diam*
,, present condition *quite satisfactory*

Bilge Pumps, No. (*two*) and size *2 7/8" rams*
Feed ,, No. (*two*) and size *2 7/8" rams*
Spare gear, if usual quantity on board Vessel
Fuel, where stowed *on both sides of engine room*
,, space between Coal Bunkers and Boilers *six inches*
,, for what quantity is space provided *about 110 tons*
Donkey Engine and Boiler *yes*
,, if fitted in Engine Room or on Deck *donkey boiler on deck*
,, can pump be worked by hand *yes*
,, size of pump () and stroke *two donkeys one for ballast with 6" double acting pump one for feed with 4 1/2" boiler*
,, is hose of sufficient length to reach every part of the Vessel *yes*
No. () and continuation of hand pumps, if fitted in Engine Room *both donkeys are 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.

One cylindrical multitubular boiler with
three furnaces fired from fore end, superheating
apparatus & dome

BOILER, maker of *Black Hawthorn & Co*
,, age of *new*
,, when last taken out
,, present condition *quite satisfactory*
,, working pressure *sixty five pounds*
No. of surface Blow off Cocks to each Boiler *one surface & one bottom blow off cock*

Can each Boiler be used separately *there is only one boiler*
What clear space between top of Boiler and woodwork *4' 9"*
What clear space between Funnel and woodwork *two feet*
Are Engine and Boiler Keelsons well connected fore and aft *yes*

SCREW SHAFT length *about 28 ft* diameter *8"* Tunnel, thickness of plating *none* height *there is no tunnel*
width *if water-tight door on Engine Bulkhead. yes*

Port *Gateshead* the *15th* day of *April* 18 *72*

We hereby certify, that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Agnes Louisa"* belonging to *is Master, 436-37 Tons Register, and 90 H.P. have been*
whereof *carefully inspected and examined by us at Gateshead & at West Hartlepool and we found the*
same, at this date, in good order and safe working condition.

for Black Hawthorn & Co
J. Hallam
Marine Engineers.

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