

No. 235.

S.S. "Gracie" 24791 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

Rec 20/11/79

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Compound Inverted Surface Condensing*
Made by *Blair - Co. (Lm)*
When *Sept 18/99* At *Stockton on Tees*
Diameter of cylinder *36 1/2* Length of stroke *42*
No. of revolutions per minute *About 65*
Point of cut off *1/2 stroke*
Diameter of screw shaft *13"*
Diameter of crank shaft journals *12 1/2" Tunnel shaft 12 dia*
Diameter of screw, or of paddle wheel *15.6"*
Pitch of screw *16.0*
No. of blades, *4* Total surface *Not ascertained*
No. of bilge pumps *2* and sizes *4 1/4 x 30 1/2" Single Acting*
Do they pump from each compartment *Yes Pump draws from ballast tanks after well, engine room & fore hold. After pump draws from after well & engine room*

Are all the bilge suction pipes fitted with roses *Yes*
No. of feed pumps *2* and sizes *4 1/4 x 30 1/2" Single Acting*
What gauges are there attached to the engines and boilers ... *3 steam 1 Vacuum*
Description and size of *2 1/2" Pump 1 1/2 dia x 9 1/2" Double Acting*
Donkey Pumps ... *2 1/2" 5 3/4 x 8"*
Where do they pump *engine room & fore hold. 2 1/2" from sea*
No. of bilge injections *1* and sizes *6"*
Are they connected to air, or circulating pumps *Circulating Pump*
Is there a hand pump in the engine room *Donkey work by hand*
Can it be worked by the main engines *No*
Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

MAIN BOILERS.

Number *Two* Description *Cylindrical Multitubular*
Made by *Blair - Co. (Lm)*
When *Sept 18/99* At *Stockton*
Working pressure *80 lbs*
Tested by hydraulic pressure to *160 lbs*, Date *2/9/99*
Description of super-heating apparatus *None*
Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *No Superheater*
Description and area of *Two spring valves on each boiler*
safety valves on each boiler *Combined area of two valves 25 sq in*
No. of square feet of fire-grate surface in each boiler *46.6 sq feet*
Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *Yes*
Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times *Except suction pipes & roses in holds when ship is loaded*

DONKEY

Description *Vertical Water tubes in furnace*
Where fixed *In stokehold*
Working pressure *10 lbs Loaded to 68 1/2 lbs*

BOILER *Made by Clark, Chapman & Gurney, Stockton*
Tested by hydraulic pressure to *140 lbs*, Date *23/8/99*
Description and area of safety valves *1 direct 2 1/4 dia = 4.94 sq in*
No. of square feet of fire grate *12.56 sq feet*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Yes*
Are they Kingston valves or common cocks ... *Stop valves and common cocks*
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates *Yes*
Are the discharge pipes above or below the deep water line *Above*
Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *None*
How are they protected *"*
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *New*
Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Tunnel cut watertight Sluice door fitted*

Rob Blair & Co Ltd
G & Blair

Manufacturers of Engines & Main Boilers only

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood)

Screw (or Paddle) Steam Vessel *Gracie* owned by *J. Clarke & Co*
of the Port of *London* of *1394* Tons Register, and *180* Registered Horse Power,
and that they have been carefully inspected and examined by me at *Stockton & Hartlepool*
and found to be at this date, viz., *3rd October* 18*99* in good order and safe working condition.
Boiler Survey Fee... £ *9.0.0* received by me, *James Blair*
Amount of Fee for Survey ... £ *9.0.0* 14.10.18.99
Certificate
Selling Expenses, if any, £ *0.0.0*

Engineer Surveyor to Lloyd's Register of Shipping.
West Hartlepool

Report (if any) on Hull of Vessel. No 4280

IRON 488-0219

THE LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING
SURVEYOR'S REPORT OF

INSPECTED

At the office of the Surveyor of the Port of London
on the 20th day of October 1879

THE SHIP

NAME OF THE SHIP

REGISTERED AT

PORT OF

NAME OF THE SHIP

REGISTERED AT

PORT OF

MAIN ENGINE

REGISTERED AT

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1879

The Machinery of this vessel has been built
and fitted in accordance with the rules
submitted that it is eligible to have
Lloyd's M.C. and a machinery certificate
given 3rd October 1879 -

MM 20-10-79



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Foundation