

Rec 2/12/88

ENGINES.

Are all the bilge suction pipes fitted with roses *Yes*

No. of feed pumps *2* and sizes *4x28 & 10 Single Acting*

What gauges are there attached to the engines and boilers ... *3 Steam*
1 Vacuum

Description and size of Donkey Pumps ... *No 1 Pump 1/2 dia x 9 & 10 Double Acting*
No 2 " 4 " x 8 " "
No 3 draws from fore & main holds, wing

Where do they pump from ... *Centre of engine room & aft & fore well No 2*
from same places as No 1 and from sea and hot well

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 works 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*

Number *200* Description *Cylindrical. Multitubular*
Made by *Blair & Co (Lm)*
When *Nov 2* 18 *78* At *Stockholm Swed*
Working pressure *78 lbs per sq inch*
Tested by hydraulic pressure to *150 lbs*, Date *9/10/78*
Test Certificate No 123
Description of super-heating } *None*
apparatus }
Can each boiler be worked separately *Yes*

Can the super-heater be shut off and } *No superheater*
the boilers worked separately)
Description and area of *Two spring valves on each boiler*
safety valves on each
boiler *Combined area of two valves 19.2 sq. in.*
No. of square feet of fire-grate } *33.5 sq. feet*
surface in each boiler)
Are there separate blow off and } *Yes*
brine cocks on each boiler,
independent of those
on the vessel's skin)
Are all pipes, cocks, roses, and pumps in *all except suction pipes & pumps*
connection with the machinery ac-
cessible at all times. *Holds when ship is loaded*

Description *Horizontal Cylindrical, Multitubular*
Where fixed *On Deck*
Working pressure *45 lbs Per square. Loaded to*

Tested by hydraulic pressure to 150 lbs per sq in Date 7/11/98
Test Certificate 282 183
 Description and area of safety valves 10 sq in 29/32 dia
11 in 29/32 } 8 in
36 sq in }
11.3 sq in
 Area of square feet of fire grate

Are all connections with the sea } direct on the skin of the ship }	Yes
Are they Kingston valves } or common cocks ... }	Stop valves and 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 }	
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.....	in
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	Yes

Prof Blair Theo 2d
Ely 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 St. Mark owned by G. Finman & Co.
of the Port of London of 1094 1/3 Tons Register, and 190 Registered Horse Power,
and that they have been carefully inspected and examined by me at Stockton on Tees
and found to be at this date, viz., 22nd November 18th 18 in good order and safe working condition.

Amount of Fee for Survey
Certificate
(Travelling Expenses, if any, £.....)

Engineer Surveyor to Lloyd's Register of Shipping.

West. H. Quaker

The machinery and Boilers of
this vessel are fitted in accordance
with the Committee's requirements
submitted that she is eligible
to have - Lloyd's M.R. and
a machine certificate
from 22nd Nov 1878

 2.11.78



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Lloyd's Register
Foundation