

21504 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 12/5/78

Description *Compound, Inverted, Surface Condensing*
Made by *Messrs. Richardson & Sons*
When *July* 18*78* At *Hartlepool*
Diameter of cylinder *38" x 40"* Length of stroke *36"*
No. of revolutions per minute *About 60*
Point of cut off *1/2 stroke*
Diameter of screw shaft *11 3/4"*
Diameter of crank shaft journals *11 3/4"* Tunnel shaft *11 dia*
Diameter of screw, or of paddle wheel *16' 6"*
Pitch of screw *1 1/2"*
No. of blades, *14* Total surface *74.9 sq feet*
No. of bilge pumps *2* and sizes *3 1/2 x 40 stroke Single Acting*
Do they pump from each compartment *From fore hold, engine room, & after hold*

Are all the bilge suction pipes fitted with roses *Yes*
No. of feed pumps *2* and sizes *3 3/4 x 2 1/2 stroke Single Acting*
What gauges are there attached to the engines and boilers ... *5 Steam 1 Vacuum*
Description and size of Donkey Pumps ... *One double acting donkey. Pump 4 1/2 dia x 9 stroke*
Where do they pump from *From sea, fore hold, fore hold, after hold and engine room*
No. of bilge injections *1* and sizes *4 1/2"*
Are they connected to air, or circulating pumps *Circulating Pumps*
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 any part of the vessel *Yes*

MAIN BOILERS.

Number *Two* Description *Cylindrical, Multitubular*
Made by *Messrs. Richardson & Sons*
When *July* 18*78* At *Hartlepool*
Working pressure *40 lbs*
Tested by hydraulic pressure to *140 lbs*, Date *16/7/78*
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 safety valves on each boiler *Two spring valves on each boiler*
No. of square feet of fire-grate surface in each boiler *50 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. *All except suction pipes & none in holds when ship is loaded*

DONKEY BOILER

Description *Vertical Water tubes in furnace*
Where fixed *In stokehold*
Working pressure *40 lbs*

Made by *Raylton Dixon & Co. Middlesbro*
Tested by hydraulic pressure to *140 lbs*, Date *23/5/78*
Description and area of safety valves *Direct & blow weight*
No. of square feet of fire grate *Combined area 14 sq ft*

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 *Below*
Are they each fitted with a discharge valve on the plating of the vessel *Yes*
McLachlan & Sons
2 Chas Smith

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 not watertight. Sluice door fitted*

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 *"Gelderland"* owned by *H. Mayo & Sons* of the Port of *Rotterdam* of *1405.41* Tons Register, and *200* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hartlepool & Middlesbro* and found to be at this date, viz., *1st August* 18*78* in good order and safe working condition.

Amount of Fee for Survey ... £10:0:0
Certificate (Travelling Expenses, if any, £) *0.5-0*
Rec'd 9/8/78
J.B.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

180479-0379

Marching Jettie according to the rules -
Submitted that she is eligible
to have Lloyd's No. 100 -
Certificate from 1 August 78

MD

13. 8. 78



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