

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 20/2/99

Report (if any) on Hull of Vessel. Glasgow No. 14800
Description *Compound Inverted Street Acting*
Made by *J. Rowan*
When *18 99* At *Glasgow*
Diameter of cylinder *33 1/2* " Length of stroke *42* "
No. of revolutions per minute *about 60*
Point of cut off _____
Diameter of screw shaft *12 1/2* "
Diameter of crank shaft journals *12 1/2* "
Diameter of screw, ~~or of paddle wheel~~ *14* ft
Pitch of screw *18* ft
No. of blades *four* Total surface *about 80* ft²
No. of bilge pumps *two* and sizes *3 1/2 dia x 21" stroke*
Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses *yes*
No. of feed pumps *two* and sizes *3 1/2 x 21" stroke*
What gauges are there attached to the engines and boilers ... *three steam one vacuum, one compound, one double acting 9 x 14" stroke*
Description and size of Donkey Pumps ... *one 80 4 x 12"*
Where do they pump from ... *from Ballast Tanks and Sea, Bilge & Holdwell*
No. of bilge injections *one* and sizes _____
Are they connected to air, or circulating pumps *circulating*
Is there a hand pump in the engine room *yes*
Can it be worked by the main engines _____
Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

MAIN BOILERS.

Number *two* Description *Flat Sided Horizontal*
Made by *J. Rowan*
When *18 99* At *Glasgow*
Working pressure *80 lbs*
Tested by hydraulic pressure to *160 lbs*, Date *Jan 24 1899*
Description of super-heating apparatus _____
Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately *yes*
Description and area of safety valves on each boiler ... *two Street Acting each 14 1/2" area*
No. of square feet of fire-grate surface in each boiler *61 1/2*
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 *yes*

DONKEY BOILER.

Description *Round Vertical*
Where fixed *on Main Deck*
Working pressure *60 lbs*

Tested by hydraulic pressure to *120*, Date *Jan 18 1899*
Description and area of safety valves *one Street Acting 7" area*
No. of square feet of fire grate *14 1/2*

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 ... *screw down valves & cocks*
Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *all fitted above the turn of the bilge*
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*
David Rowan Manufacturer.

What pipes are carried through the bunkers *bilge pipes to forehold*
How are they protected *by wood casing*
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *on ship's previous to being launched*
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*

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 "*Clan Ronald*" owned by *Barry & Irvine & Co* of the Port of *Glasgow* of *125 1/2* Tons Register, and *210* Registered Horse Power, and that they have been carefully inspected and examined by me at *Glasgow & Dumbarton* and found to be at this date, viz., *Feb 2 19 18 99* in good order and safe working condition.

Amount of Fee for Survey ... £10:10:0
(Travelling Expenses, if any, £1:11:6)

James Morrison
Engineer Surveyor to Lloyd's Register of Shipping,
Glyde District

It is submitted that this
vessel is eligible to have
a machinery certificate
granted and Lloyd's M.C.
recorded.

Multon 21/2/79



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Foundation