

S. S. "Clan Ronald"

22749. Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 20/2/99

Description *Compound Inverted Street Acting*
 Made by *J. Rowan*
 When *18 79* At *Glasgow*
 Diameter of cylinder *33 3/4* Length of stroke *12*
 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 1/2*
 Pitch of screw *18 1/2*
 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*
 Description and size of Donkey Pumps ... *one double acting 9 x 14 stroke*
 Where do they pump from ... *from Ballast Tanks and Sea, Bilge & Astwell*
 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 79* At *Glasgow*
 Working pressure *80 lbs*
 Tested by hydraulic pressure to *160 lbs*, Date *Jan 24 18 79*
 Description of super-heating apparatus _____
 Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately _____
 Description and area of safety valves on each boiler ... *two Street Acting each 14.42 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 4 18 79*
 Description and area of safety valves *one Street Acting 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 Balcock 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 fore hold*
 How are they protected *by wood casing*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *On ship 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 *Cayzer Irvine & Coy* of the Port of *Glasgow* of *1257* 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 79* in good order and safe working condition.

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

James McAlister
 Engineer Surveyor to Lloyd's Register of Shipping,
 Clyde District

Report (if any) on Hull of Vessel. Port Glasgow No. 1400

Form No. 8-1000-22/9/78

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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