

20475 Eon

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 11/4/78

Report (if any) on Hull of Vessel. Port Glasgow No. 14634.

Description *Compound Inverted Vertical Acting*
 Made by *A & S Inglis*
 When *1878* At *Glasgow*
 Diameter of cylinder *18" & 34"* Length of stroke *24"*
 No. of revolutions per minute *90*
 Point of cut off *Variable*
 Diameter of screw shaft *6 1/2"*
 Diameter of crank shaft journals *4"*
 Diameter of screw, or of paddle wheel *9' 2"*
 Pitch of screw *11' 6"*
 No. of blades, *Three* Total surface *not ascertained*
 No. of bilge pumps *Two* and sizes *3 3/4" x 6" 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 3/4" dia x 6" stroke*
 What gauges are there attached to the engines and boilers ... } *One Steam One Vacuum & One Compound*
 Description and size of Donkey Pumps ... } *Double acting 3 1/2" x 7" stroke*
 Where do they pump from } *from the sea & bilge*
 No. of bilge injections *one* and sizes *3"*
 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 *no*
 Is there a deck hose of sufficient length to reach to any part of the vessel } *yes*

MAIN BOILERS.

Number *One* Description *Round Horizontal*
 Made by *A & S Inglis*
 When *1878* At *Glasgow*
 Working pressure *70 lbs*
 Tested by hydraulic pressure to *140*, Date *March 5th 1878*
 Description of super-heating apparatus } *none*
 Can each boiler be worked separately _____

Can the super-heater be shut off and the boilers worked separately } _____
 Description and area of safety valves on each boiler } *two direct spring each 8.29" area*
 No. of square feet of fire-grate surface in each boiler } *34 ft*
 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 *In Engine Room*
 Working pressure *50 lbs*

Tested by hydraulic pressure to *100 lbs*, Date *Mar. 5th 1878*
 Description and area of safety valves *Direct loaded 4" area*
 No. of square feet of fire grate *9 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 ... } *Kingston Valve 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*
A & S Inglis Manufacturers

What pipes are carried through the bunkers *pipe 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 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 *"Lanark"* owned by *J. Burnett & Co*
 of the Port of *London* of *192* Tons Register, and *50* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Glasgow*
 and found to be at this date, viz., *April 9th 1878* in good order and safe working condition.

Amount of Fee for Survey £ *2:10:00* paid
 (Travelling Expenses, if any, £)

James Morrison
 Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register of Shipping Foundation