

S.S. "Lady Olive" 22519 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Report (if any) on Hull

Description *Compound Inverted Direct Acting*
Made by *Messrs A & J. Inglis*
When *1879* At *Glasgow*
Diameter of cylinder *36" x 46"* Length of stroke *42"*
No. of revolutions per minute *75*
Point of cut off *15 to 32 ins.*
Diameter of screw shaft *12"*
Diameter of crank shaft journals *12 1/2"*
Diameter of screw, ~~or of paddle wheel~~ *18" x 9"*
Pitch of screw *19 1/6"*
No. of blades *Four* Total surface *60 ft²*
No. of bilge pumps *Two* and sizes *6" dia x 7" 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 *7" x 7" stroke*
What gauges are there attached to the engines and boilers ... *Four Steam one Vacuum One Compound*
Description and size of Donkey Pumps ... *Double acting 4" x 8"*
Where do they pump from ... *From the Sea, Bilge & Hold*
No. of bilge injections *One* and sizes *4"*
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 *Two* Description *Round Horizontal*
Made by *Messrs A & J. Inglis*
When *1879* At *Glasgow*
Working pressure *75 lbs*
Tested by hydraulic pressure to *150 lbs*, Date *6.12.78*
Description of super-heating apparatus *None (Receiver common to both boilers)*
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 Direct Spring each 16.8" dia*
No. of square feet of fire-grate surface in each boiler *65 ft²*
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 *50 lbs*

Tested by hydraulic pressure to *100 lbs*, Date *6/12/78*
Description and area of safety valves *Two Direct Spring*
No. of square feet of fire grate *14 ft²*

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 & other 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*

What pipes are carried through the bunkers *Bilge pipes to hold*
How are they protected *by bulkhead 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*

J. A. Inglis Manufacturer.
John M. Welsh

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 "Lady Olive" owned by *British & Irish Steam Navigation Co* of the Port of *Dublin* of *679-30* Tons Register, and *200* Registered Horse Power, and that they have been carefully inspected and examined by me at *Glasgow* in good order and safe working condition. *January 22nd 1879*

Amount of Fee for Survey ... £ *10 : 2 : 0* *paid*
(Travelling Expenses, if any, £ *—*)

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

The. Maching and Boilers of this
Vessel are fitted in accordance
with the Committee requirements
submitted that she is eligible
to receive machinery
certificates and to have
the notification Lloyd's
Register.

Mullins
29/1/79

