

SHIP'S NAME

S.S. "Glenroy"

25322 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Recd 1/1/80

Report (if any) on Hull of Vessel. Port *Chulu* No. *4817*

Description *Vert. com. Compound, surface condensing*
 Made by *London & Glasgow Engineering Co.*
 When *1871* At *Glasgow*
 Diameter of cylinder *21 1/2" x 70"* Length of stroke *42*
 No. of revolutions per minute *60*
 Point of cut off *26"*
 Diameter of screw shaft *1 1/4"*
 Diameter of crank shaft journals *1 1/2" & 1 1/2" pins*
 Diameter of screw, or of paddle wheel *main bearings - 1 1/2" }
16 feet }*
 Pitch of screw *22" 6'*
 No. of blades, *4* Total surface
 No. of bilge pumps *2* and sizes *7 1/2" dia x 9"*
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *6" dia x 15"*
 What gauges are there attached to the engines and boilers ... *Steam & Vacuum, and a set of water gauges in each stokehold*
 Description and size of Donkey Pumps ... *Vertical, double acting, 9" dia, 5 1/2" ran. & 10" stroke.*
 Where do they pump from ... *Compartment same as bilge pumps, from Boiler*
 No. of bilge injections *one* and sizes *5 3/8" non-return*
 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 *Yes*
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

MAIN BOILERS.

Number *Two* Description *Cir. multitubular*
 Made by *C. D. Holmes & Co.*
 When *Oct 1879* At *Hull*
 Working pressure *45 lbs per sq. inch*
 Tested by hydraulic pressure to *150 lbs*, Date *6/10/79*
 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 *Yes*
 Description and area of safety valves on each boiler ... *Two of 5" dia = 39.27 area. Both to ease & to turn spring loaded.*
 No. of square feet of fire-grate surface in each boiler *71.5 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. *E. Room & under after hold *Yes*
Not under fire main holds when cargo is on*

DONKEY BOILER.

Description *multitubular flat sided, same cir. top & bottom.*
 Where fixed *On deck.*
 Working pressure *50 lbs.*

Tested by hydraulic pressure to *100 lbs.*, Date *7/11/79*
 Description and area of safety valves *1. 3" dia & 7" area. Spring loaded.*
 No. of square feet of fire grate *12.75*

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 ... *Common cocks & screw valves*
 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*

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 *15 December 1879.*
 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.*

Manufacturer.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (~~Paddle~~) Steam Vessel *"Glenroy"* owned by *A. C. Gow & Co.* of the Port of *Glasgow* of *1411* Tons Register, and *250* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hull and Grimsby* and found to be at this date, viz., *17th December* 1879 in good order and safe working condition.

Amount of Fee for Survey ... £ - : -
 (Travelling Expenses, if any, £ - : -)

John B. Stuenkel
 Engineer Surveyor to Lloyd's Register of Shipping.