

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 24/6/76

Description *Inverted Compound Surface Condensing*
 Made by *Messrs J. Richardson & Sons.*
 When *May 1876* At *Hartlepool.*
 Diameter of cylinder *26 x 49* Length of stroke *30 inches*
 (one of each)
 No. of revolutions per minute *70*
 Point of cut off *12 stroke.*
 Diameter of screw shaft *8"*
 Diameter of crank shaft journals *8 3/4"*
 Diameter of screw, or of paddle wheel *12 1/4"*
 Pitch of screw *15 0*
 No. of blades, *4* Total surface *45 sq. feet.*
 No. of bilge pumps *1* and sizes *3 1/2 dia x 22 1/2 stroke single*
 Do they pump from each compartment *yes.*

Are all the bilge suction pipes fitted with roses *yes.*
 No. of feed pumps *1* and sizes *3 1/2 x 22 1/2 stroke.*
 What gauges are there attached to the engines and boilers ... *1 vacuum 2 steam*
 Description and size of Donkey Pumps ... *one inverted double acting 4 1/2 dia x 6 stroke.*
 Sea. *Hatwell & bilges.*
 Where do they pump from ... *of engine room. & fore and after holds.*
 No. of bilge injections *1* and sizes *4 1/2 dia.*
 Are they connected to air, or circulating pumps *to circulating pump*
 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 *Cylindrical & multitubular.*
 Made by *Messrs J. Richardson & Sons.*
 When *new* 1876 At *Hartlepool.*
 Working pressure *65 lbs per sq. inch.*
 Tested by hydraulic pressure to *130 lbs*, Date *May 9th 1876*
I was present &c.
 Description of super-heating apparatus *none.*
 Can each boiler be worked separately *only one boiler.*

Can the super-heater be shut off and the boilers worked separately *yes.*
 Description and area of safety valves on each boiler *2 spring 4 3/8 dia.*
 = *30 sq. ins. Area*
 No. of square feet of fire-grate surface in each boiler *51 1/4.*
 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*

OLD DONKEY BOILER.

Description *Vertical, Cylindrical, with 3 water tubes.*
 Where fixed *on deck.*
 Working pressure *40 lbs per sq. inch.*

Tested by hydraulic pressure to *90 lbs*, Date *May 27th 1876*
 Description and area of safety valves *loaded direct 2 1/2*
Heavy & weight 25 *9.8*
 No. of square feet of fire grate *12 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 ... *stop valves & 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.*

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 *May 1876.*
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *yes. (by Ram return valves & shell cock)*
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Tunnel not watertight No door fitted. enhance at the after end.*
and Repairs of Donkey Pumps

J. Richardson & Sons Manufacturer.
Wm. Chas. Smith

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 *"Coreyra"* owned by *Messrs Dalgrave & Co*
 of the Port of *Dublin* of *424.06* Tons Register, and *98* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Hartlepool*
 and found to be at this date, viz., *June 1st 1876.* in good order and safe working condition.

William Allison.
 Engineer Surveyor to Lloyd's Register of Shipping.