

SHIP'S NAME *Pelaw*23344 *Iron*

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Inverted.*
 Made by *North Eastern M & Co.*
 When 18 *79* At *Sunderland*
 Diameter of cylinder *38* Length of stroke *30*
 No. of revolutions per minute *62*
 Point of cut off *About 3 stroke*
 Diameter of screw shaft *Not ascertained*
 Diameter of crank shaft journals *8 inches*
 Diameter of screw, or of paddle wheel *8 inches 12 feet*
 Pitch of screw *12 to 15 feet.*
 No. of blades, *4* Total surface *not ascertained*
 No. of bilge pumps *1* and sizes *3" dia x 30 str*
 Do they pump from each compartment *from Eng Room only*

Are all the bilge suction pipes fitted with roses *yes*
 No. of feed pumps *one* and sizes *3" dia x 30" str*
 What gauges are there attached to the engines and boilers ... *2 Steam 1 Vacuum*
 Description and size of Donkey Pumps ... *2 Donkeys, Double Acting*
 Where do they pump from ... *Sea, bilge & Tanks*
 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 *no*
 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 *One* Description *Cylindrical*
 Made by *Budgeon & Co*
 When 18 *79* At *London*
 Working pressure *45 lbs per sq inch*
 Tested by hydraulic pressure to *90 lbs.* Date
 Description of super-heating apparatus *None*
 Can each boiler be worked separately *Only one*

Can the super-heater be shut off and the boilers worked separately *None*
 Description and area of safety valves on each boiler *2 Spring valves*
 No. of square feet of fire-grate surface in each boiler
 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*

Second hand DONKEY BOILER. *Fitted at this time*
 Description *Vertical*
 Where fixed *Deck*
 Working pressure *30 lbs*
 Tested by hydraulic pressure to *not tested* Date
 Description and area of safety valves *1 Lever & 1 Weight 40 lbs*
 No. of square feet of fire grate *16 sq feet.*

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 ... *Values & 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 *About 12 ft below*
 Are they each fitted with a discharge valve on the plating of the vessel *yes.*

What pipes are carried through the bunkers *Tank filling pipe*
 How are they protected *Ceiling*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *at this survey*
 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 *Sluice door fitted*

Manufacturer.

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 *Pelaw* owned by *One Steam Sh Co.*
 of the Port of *London* of *593* Tons Register, and *90* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *London*
 and found to be at this date, viz., *April 23rd* 18 *79* in good order and safe working condition.

Amount of Fee for Survey *See attached form.*
 (Travelling Expenses, if any, £.....)

Engineer Surveyor to Lloyd's Register of Shipping.

London.

120484-0224