

17884 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 22/2/77

Port Newcastle No. 12468 of Vessel.

Description *(2) cyl compound inverted S. C.*
 Made by *North Eastern Marine Engine Works Coy*
 When *1873* At *Sunderland*
 Diameter of cylinders *21" & 41"* Length of stroke *30"*
 No. of revolutions per minute *68*
 Point of cut off *1/3*
 Diameter of screw shaft *1 1/4"*
 Diameter of crank shaft journals *1 1/4"*
 Diameter of screw, or of paddle wheel *11 feet*
 Pitch of screw *14 feet*
 No. of blades, *(4)* Total surface *36 sq feet*
 No. of bilge pumps *(2)* and sizes *4" dia 15" stroke*
 Do they pump from each compartment *Engine Room & Fore hold*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *(2)* and sizes *4" dia, 15" stroke*
 What gauges are there attached to the engines and boilers ... *(1) Steam gauge on Boilers*
(1) Sitto on Engines
(1) Vacuum " Sitto "
 Description and size of Donkey Pumps ... *(1) Ballast pump D.A. 6" dia 10" stroke*
(2) Sitto do D.A. 4" dia 6" stroke
 Where do they pump *(1) from Tanks & Bilge of Eng. room - & Fore hold*
(2) " Bilge & Sea
 No. of bilge injections *1* and sizes *4" dia*
 Are they connected to air, or circulating pumps *circulating*
 Is there a hand pump in the engine room *No forky used*
 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 *(1)* Description *Cylindrical tubular*
 Made by *North Eastern Marine Engine Works Coy*
 When *1873* At *Sunderland*
 Working pressure *65 lbs per sq inch*
 Tested by hydraulic pressure to *130 lbs*, Date *-73*
 Description of super-heating apparatus *None*
 Can each boiler be worked separately *one Boiler*

Can the super-heater be shut off and the boilers worked separately *None*
 Description and area of safety valves on each boiler *1 Dead Weight 5 1/2" dia*
23 1/2 sq inches
 No. of square feet of fire-grate surface in each boiler *41 sq 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. *All except rose in Fore hold.*

DONKEY BOILER.

Description *Vertical Cylindrical*
 Where fixed *Upper Deck*
 Working pressure *45 lbs per sq inch*

Tested by hydraulic pressure to *not ascertained*, Date
 Description and area of safety valves *(1) dead Weight = 4.2 sq in*
 No. of square feet of fire grate *10 sq feet*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *all except Tank filling & Water Service for ashes*
 Are they Kingston valves or common cocks ... *(2) Stop Valves rest on common Cocks*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *all except Blow off and Water Service*
 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 *Stern tube & Screw shaft April 75*
Propeller & connections July 77
 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 *Not Water tight*

Manufacturer.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood)

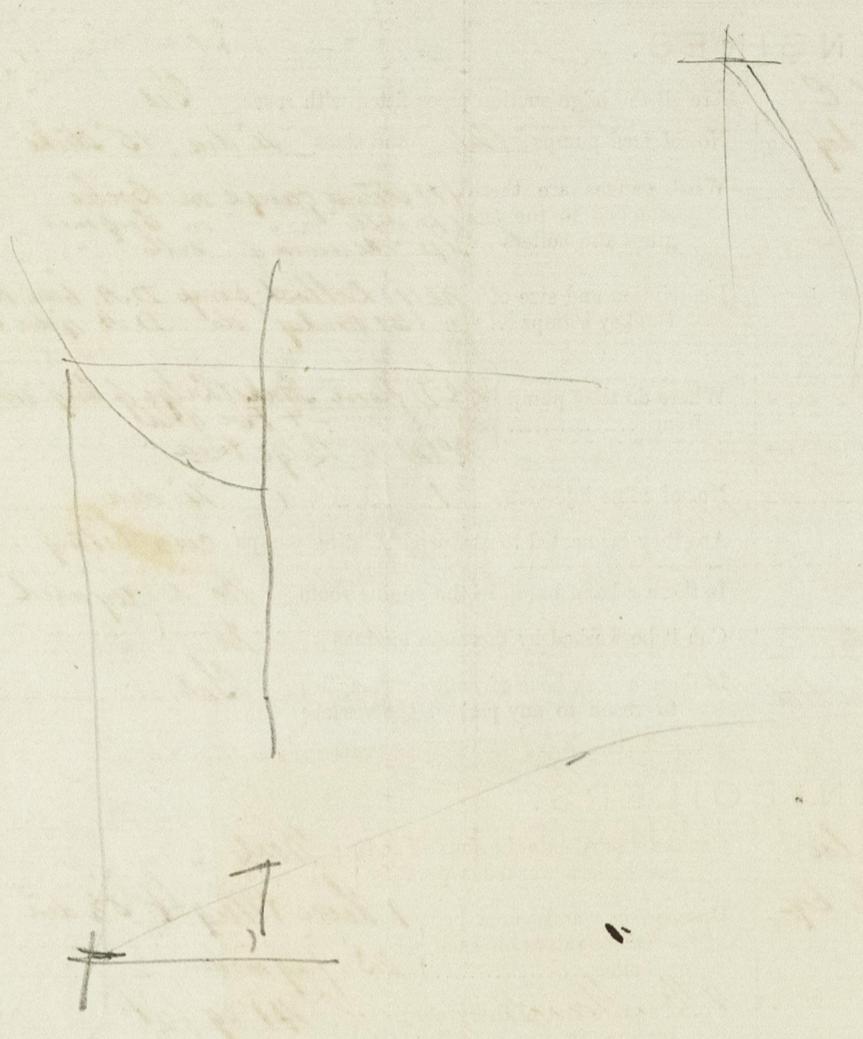
Screw (or Paddle) Steam Vessel *"Lubilo"* owned by *J. Young, J. J. J. J. J.*
 of the Port of *London* of *434* Tons Register, and *90* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Howden on Tyne*
 and found to be at this date, viz., *July 12th* 1877 in good order and safe working condition.

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

George W. Mansel
 Engineer Surveyor to Lloyd's Register of Shipping.
N. Shields

IRON-0216

17541
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Foundation