

16521 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 21/1/76

No. of Hull. essel. Port Report (if any) on Hull.

Description *low pressure, inverted cylinders, common*
 Made by *Hoborn's Maschinenfabrik*
 When *1873* At *Elbing*
 Diameter of cylinders *22"* Length of stroke *1'-6"*
 No. of revolutions per minute *108*
 Point of cut off *3/4 stroke*
 Diameter of screw shaft *5 1/2"*
 Diameter of crank shaft journals *4 1/2"*
 Diameter of screw, or of paddle wheel *6'-2"*
 Pitch of screw *7'-6"*
 No. of blades, *3* Total surface *—*
 No. of bilge pumps *1* and sizes *3 3/4" dia x 9 5/8" stroke*
 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 3/4" dia. x 9 5/8" stroke*
 What gauges are there attached to the engines and boilers ... } *Roundabout principle.*
 Description and size of } *steam cyl: 6 3/4" dia x 6 3/4" stroke*
 Donkey Pumps ... } *pump 3 1/2" dia x 6 3/4" stroke*
 Where do they pump } *Engine & boiler room and*
 from } *from forehold.*
 No. of bilge injections *1* and sizes *2 1/4" dia*
 Are they connected to air, or circulating pumps *to Condenser*
 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 } *yes*
 to reach to any part of the vessel }

MAIN BOILERS.

Number *1* Description *low pressure wet bottom*
 Made by *?*
 When *1872* At *Helmstedt*
 Working pressure *1 1/2 Atmospheres*
 Tested by hydraulic pressure to *3 Atm:*, Date *1873*
 Description of super-heating } *none*
 apparatus }
 Can each boiler be worked separately *—*

Can the super-heater be shut off and the boilers worked separately } *—*
 Description and area of } *2 lever loaded valves*
 safety valves on each } *combined areas 38, 20"*
 boiler }
 No. of square feet of fire-grate } *40 square feet*
 surface in each boiler }
 Are there separate blow off and } *yes*
 brine cocks on each boiler, } *—*
 independent of those } *—*
 on the vessel's skin }
 Are all pipes, cocks, roses, and pumps in } *yes*
 connection with the machinery ac- } *—*
 cessible at all times..... }

DONKEY BOILER.

Description *cyl: vertical with two Galloway tubes, uptake*
are fixed on Deck through steam space.
 Working pressure *40 lbs per sq inch*

Tested by hydraulic pressure to *80 lbs*, Date *1874*
 Description and area of safety valves *lever loaded, 2 square inches*
 No. of square feet of fire grate *5, 4 square feet*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea } *yes*
 direct on the skin of the ship }
 Are they Kingston valves } *cocks*
 or common cocks ... }
 Are they fixed sufficiently high on } *yes with exception of the*
 the ship's side to be seen } *bottom blow off cock*
 without lifting the stoke hold } *—*
 plates }
 Are the discharge pipes above or } *all above*
 below the deep water line }
 Are they each fitted with a discharge } *no*
 valve on the plating of the vessel }

What pipes are carried through the bunkers *the surface blow off pipe*
 How are they protected *it is fixed close to the deck on side of beam*
 When were the stern tube, } *25th May 1876.*
 propeller, screw shaft, } *—*
 and all connections } *—*
 examined in dry dock }
 Are the pipes, cocks, and valves } *yes*
 arranged so as to prevent } *—*
 an unintentional connection } *—*
 between the sea and the bilge }

Is the screw shaft-tunnel water } *not watertight in the hold*
 tight and fitted with a } *but at the bulkhead*
 sluice door on bulkhead }

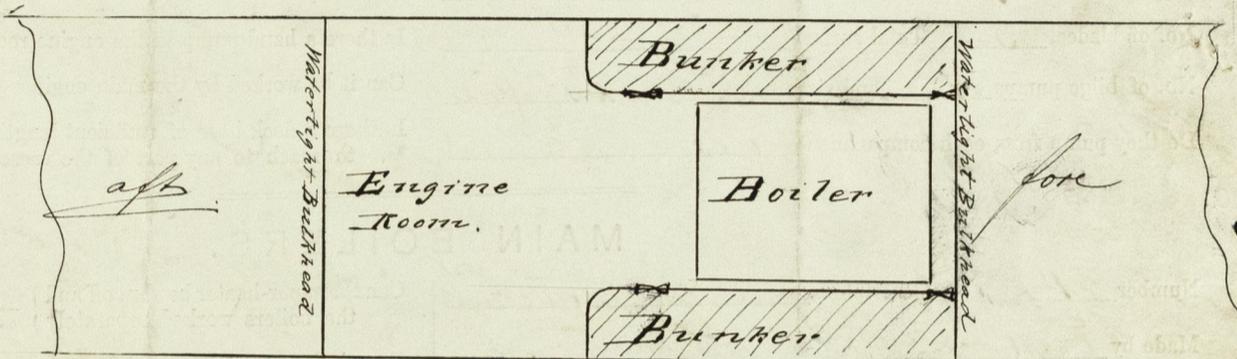
Manufacturer.

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 "*Adler*" owned by *David Wieler* of the Port of *Elbing* of *195* Tons Register, and *44* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hamburg* and found to be at this date, viz., *29th May* 18 *76* in good order and safe working condition.

Ernst Voss
 Engineer Surveyor to Lloyd's Register of Shipping.

over

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