

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 8/1/76

No.

Port

Report (if any) on Hull & Sessel.

Description *low pressure, inverted cylinders, common*
Made by *Holop'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 ... *Bourdon 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 from *Engine & boiler room and 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 to reach to any part of the vessel *yes*

MAIN BOILERS.

Number *1* Description *low pressure wet bottom*

Made by *?*

When 1872 At *Heekin*

Working pressure *1 1/2 Atmospheres*

Tested by hydraulic pressure to *3 Atm:*, Date *1873*

Description of super-heating apparatus *none*

Can each boiler be worked separately *—*

Can the super-heater be shut off and the boilers worked separately *—*

Description and area of safety valves on each boiler *2 lever loaded valves combined areas 38.2 sq"*

No. of square feet of fire-grate surface in each boiler *40 square 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 *yes*

DONKEY BOILER.

Description *cyl: vertical with two Gallows tubes, uptake*
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 direct on the skin of the ship *yes*

Are they Kingston valves or common cocks ... *cocks*

Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates *yes with exception of the bottom blow off cock*

Are the discharge pipes above or below the deep water line *all above*

Are they each fitted with a discharge valve on the plating of the vessel *no*

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, propeller, screw shaft, and all connections examined in dry dock *25th May 1876.*

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 watertight in the hold but at the 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.

16521 Iron

