

N. 200.

S. S. "Velocity"

23826 Iron

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

Rec 16/6/79

Description *Compound Inverted Surface Condensing*  
 Made by *Blair & Co. (Lim)*  
 When *May 18/79* At *Stockholm on Ice*  
 Diameter of cylinder *19" x 36* Length of stroke *24"*  
 No. of revolutions per minute *About 85*  
 Point of cut off *About 1/2 stroke*  
 Diameter of screw shaft *7"*  
 Diameter of crank shaft journals *6 3/4"*  
 Diameter of screw, or of paddle wheel *8" 0"*  
 Pitch of screw *About 12-0*  
 No. of blades, *4* Total surface *Not ascertained*  
 No. of bilge pumps *1* and sizes *3" x 1/2" dia. Single Acting*  
 Do they pump from each compartment *From hold & engine room*

Are all the bilge suction pipes fitted with roses *Yes*  
 No. of feed pumps *1* and sizes *3" x 1/2" dia. Single Acting*  
 What gauges are there attached to the engines and boilers ... *1 Steam*  
 Description and size of Donkey Pumps ... *1 Vacuum*  
*One donkey pump - Pump 18" dia x 8" stroke*  
 Where do they pump from *From sea, fore hold & engine room*  
 No. of bilge injections *1* and sizes *2 1/2"*  
 Are they connected to air, or circulating pumps *Circulating pump*  
 Is there a hand pump in the engine room *Donkey works by hand*  
 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 *Blair & Co. (Lim)*  
 When *May 18/79* At *Stockholm on Ice*  
 Working pressure *8 lbs*  
 Tested by hydraulic pressure to *162 lbs*, Date *9/5/79*  
 Description of super-heating apparatus *None*  
 Can each boiler be worked separately *Only one boiler on ship*

Can the super-heater be shut off and the boilers worked separately *No Superheater*  
 Description and area of safety valves on each boiler *Two Spring valves 3" dia*  
*Combined area 14.13 sq in*  
 No. of square feet of fire-grate surface in each boiler *30 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 suction pipes & hoses in hold when ship is loaded*

### DONKEY BOILER.

Description *No Donkey Boiler*  
 Where fixed *-*  
 Working pressure *-*

Tested by hydraulic pressure to *-*, Date *-*  
 Description and area of safety valves *-*  
 No. of square feet of fire grate *-*

### 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 *About level*  
 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 *New*  
 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 *No tunnel*

*Robt Blair & Co Ltd* Manufacturer.  
*Blair*

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 *Velocity* owned by *Great Grimsby Ice Coy* of the Port of *Grimsby* of *102.45* Tons Register, and *50* Registered Horse Power, and that they have been carefully inspected and examined by me at *Stockholm & Middlesbrough* and found to be at this date, viz., *28th May 1879* in good order and safe working condition.

Amount of Fee for Survey ... £ *2:10:0*  
 Certificate (Travelling Expenses, if any, £ *5:0:0*)

*James Blair*  
 Engineer Surveyor to Lloyd's Register of Shipping.  
 West Heath

Form No. 8-1000-22/6/78

IRON 485-0233

The engines and boiler of this vessel are reported to be constructed in accordance with the Rules and to be in good order & safe working condition. It is submitted that the vessel is eligible to have a Machinery

Certificate and the notation of "Lloyd's No. 5, 79."

M  
16.6.79



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