

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rec 10/9/11

Report (if any) on Hull of Vessel. Port *London* No. *512*

Description *Compound Inverted Direct Acting*
 Made by *Messrs R & W. Hawthorn*
 When *1871* At *Newcastle*
 Diameter of cylinder *31" x 46"* Length of stroke *42"*
 No. of revolutions per minute *60*
 Point of cut off *2/3 of the stroke*
 Diameter of screw shaft *1 1/4"*
 Diameter of crank shaft journals *1 1/4"*
 Diameter of screw, *not ascertained*
 Pitch of screw *not ascertained*
 No. of blades, *four* Total surface *not ascertained*
 No. of bilge pumps *two* and sizes *4" dia x 20" stroke*
 Do they pump from each compartment *from Engine Room*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *two* and sizes *5 3/4" x 20" stroke*
 What gauges are there attached to the engines and boilers ... *Three Steam, One Vacuum, & One Compound.*
 Description and size of Donkey Pumps ... *Two Double acting pumps, worked by one engine*
 Where do they pump from ... *One 10" x 12" from Tank & Barge, One 6" x 12" from the Sea*
 No. of bilge injections *one* and sizes *5"*
 Are they connected to air, or circulating pumps *& Circulating*
 Is there a hand pump in the engine room *Yes*
 Can it be worked by the main engines *Yes*
 Is there a deck hose of sufficient length to reach to any part of the vessel *Yes*

MAIN BOILERS.

Number *two* Description *Round Horizontal*
 Made by *Messrs A. & S. Inglis*
 When *1874* At *Glasgow*
 Working pressure *65 lbs*
 Tested by hydraulic pressure to *130 lbs*, Date *April 26th 1874*
 Description of *super-heating* *Receiver Round Horizontal*
apparatus *Common to both Boilers enclosed in Uptake*
 Can each boiler be worked separately *Yes*

Can the *super-heater* be shut off and the boilers worked separately *No*
 Description and area of safety valves on each boiler ... *Two Direct Spring each 14 1/2" area*
 No. of square feet of fire-grate surface in each boiler *70 sq ft*
 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 *Round Horizontal*
 Where fixed *On Upper Deck*
 Working pressure *30 lbs*

Tested by hydraulic pressure to *not ascertained* Date *—*
 Description and area of safety valves *Direct loaded 9" area*
 No. of square feet of fire grate *14 sq ft*

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 ... *Kingston Valves & Cocks*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *The below of Cocks have been removed from flat of bottom & new ones fitted as high as possible*
 Are the discharge pipes above or below the deep water line *Circulating Discharge above Air 30 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 *August 16th 1874*
 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 *Yes*

Manufacturer.

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (*on Wood*) Screw (*on Double*) Steam Vessel *"Galatea"* owned by *James Macburn* of the Port of *London* of *1296* Tons Register, and *360* Registered Horse Power, and that they have been carefully inspected and examined by me at *Glasgow* and found to be at this date, viz., *Sept 7th* 18 *74* in good order and safe working condition.

Amount of Fee for Survey ... £ *5:5:0* *paid*

(Travelling Expenses, if any, £ *2:0:0* *paid*)

(1000/31/7/76.)

James Morrison
 Engineer Surveyor to Lloyd's Register of Shipping.

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