

18384 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

No 23/5/77

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Two 64" Oscillating Vertical Surface Condensing*
 Made by *Mr W.B. Thompson*
 When *May 1877* At *Dundee*
 Diameter of cylinders *16" & 16"* Length of stroke *36"*
 No. of revolutions per minute *40.*
 Point of cut off *7/16*
 Diameter of screw shaft *—*
 Diameter of crank shaft journals *6 1/2"*
 Diameter of ~~screw~~ of paddle wheel *12 feet*
 Pitch of screw *—*
 No. of blades, *8* Total surface *149.6 feet*
 No. of bilge pumps *One* and sizes *3 1/2" Dia 9 1/2" Stroke*
 Do they pump from each compartment *Engine Room*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *One* and sizes *3 1/2" Dia 9 1/2" Stroke*
 What gauges are there *one water on Boiler*
 attached to the en- *one each Pressure and*
 gines and boilers ... *Vacuum on Engines*
 Description and size of *Vertical direct-acting*
 Donkey Pumps ... *5" Cy 5" St 2 3/8" Plunger*
 Where do they pump *Sea Bilge to Boiler*
 from *and on deck*
 No. of bilge injections *One* and sizes *2 1/2" Bore*
 Are they connected to air, or circulating pumps *Circulating*
 Is there a hand pump in the engine room *Suction*
 Can it be worked by the main engines *No*
Donkey can be worked by
Hand
 Is there a deck hose of sufficient length *Yes*
 to reach to any part of the vessel

MAIN BOILERS.

Number *One* Description *Circular Tubular*
 Made by *Mr W.B. Thompson*
 When *May 1877* At *Dundee*
 Working pressure *65 lbs*
 Tested by hydraulic pressure to *130*, Date *12/4/77*
 Description of super-heating *Vertical Domb*
 apparatus *—*
 Can each boiler be worked separately *—*

Can the super-heater be shut off and *—*
 the boilers worked separately *—*
 Description and area of *Two Spring Safety*
 safety valves on each *by W.B. Thompson*
 boiler *14 an inch*
 No. of square feet of fire-grate *22.34 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 *None*
 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 *Yes*
 direct on the skin of the ship
 Are they Kingston valves *Cocks & Valves*
 or common cocks ...
 Are they fixed sufficiently high on *Yes*
 the ship's side to be seen
 without lifting the stoke hold
 plates *above*
 Are the discharge pipes above or *above*
 below the deep water line
 Are they each fitted with a discharge *Yes*
 valve on the plating of the vessel

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
 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 *bulkhead water*
 tight and fitted with a *tight*
 sluice door on bulkhead

W.B. Thompson 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 "*Kaffrarian*" owned by *Kaffrarian Steam Landing*
Shipping and Forwarding Coy.
 of the Port of *East London* of *96* Tons Register, and *40* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Dundee*
 and found to be at this date, viz., *21st May* 1877 in good order and safe working condition.

Fees £2-0-0
Recd for Mr Sturrock.
21 May 1877. J.S.

John Sturrock
 Engineer Surveyor to Lloyd's Register of Shipping.