

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 22/1/78

Description *Invited. Compound. Surface Condensing.*
 Made by *North Eastern Marine Engineering Coy.*
 When *July* 1878 At *Sunderland*
 Diameter of cylinder *31* x *58* Length of stroke *36*
 No. of revolutions per minute *60*
 Point of cut off *1/2 stroke*
 Diameter of screw shaft *10*
 Diameter of crank shaft journals *10*
 Diameter of screw, or of paddle wheel *14.0*
 Pitch of screw *15.0*
 No. of blades, *4* Total surface *60 sq. feet.*
 No. of bilge pumps *2* and sizes *3 1/2 x 36 stroke.*
 Do they pump from each compartment *Engine room, aft well & fore hold.*

Are all the bilge suction pipes fitted with roses *yes.*
 No. of feed pumps *2* and sizes *3 1/2 x 36 stroke.*
 What gauges are there attached to the engines and boilers ... *1 steam gauge on each boiler, and 1 common to both, 1 vacuum.*
 Description and size of Donkey Pumps ... *2 inverted double acting, large one 6" dia. x 9" stroke. Small one 4" x 6" stroke. The large one from sea tanks, Condenser, and bilges of engine room, aft well & fore hold. Small one from same places.*
 Where do they pump from ...
 No. of bilge injections *one* and sizes *4" diameter*
 Are they connected to air, or circulating pumps *to circulating*
 Is there a hand pump in the engine room *no.*
 Can it be worked by the main engines
 Is there a deck hose of sufficient length to reach to any part of the vessel *yes.*

MAIN BOILERS.

Number *Two* Description *Cylindrical & Multitubular.*
 Made by *North Eastern Marine Engineering Coy.*
 When *July* 1878 At *Sunderland.*
 Working pressure *75 lbs*
 Tested by hydraulic pressure to *150 lbs*, Date *March 19/78*
 Description of super-heating apparatus *none.*
 Can each boiler be worked separately *yes.*

Can the super-heater be shut off and the boilers worked separately
 Description and area of safety valves on each boiler *2. Adams patent spring 3 1/2" = 19.2 area*
 No. of square feet of fire-grate surface in each boiler *33.*
 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, (except rose in fore hold when full.*

DONKEY BOILER. by Clark, Chapman & Garney.

Description *Upright Cylindrical, with 3 cross tubes.*
 Where fixed *in the stokehold.*
 Working pressure *50 lbs*

Tested by hydraulic pressure to *100 lbs*, Date *April 29/78*
 Description and area of safety valves *1 River & Night 2 1/2" 2 1/2" in 1 Loaded direct 2 1/2" = 10.8*
 No. of square feet of fire grate *14.*

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 *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 *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 *yes*

Jos M & Co Engineers
Walsby & Co

Manufacturer.

Except of the Donkey Boiler
I was present, when steam was raised the Engines worked & safety valves adjusted accumbt 2nd and closed at 73 lbs. June 20th 1878 N.A.

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 *"Elsie Ker"* owned by *J. M. Henderson* of the Port of *London* of *910* Tons Register, and *150* Registered Horse Power, and that they have been carefully inspected and examined by me at *Sunderland* and found to be at this date, viz., *16th July* 1878 in good order and safe working condition.

Amount of Fee for Survey ... £ 7 : 10 :

(Travelling Expenses, if any, £ 0 : 5 : 5)

Received 18/7/78

William Allison, & M. G. G. G.
 Engineer Surveyor to Lloyd's Register of Shipping

Sunderland.

Machinery and Boilers of this vessel
filled in accordance with the rules
submitted that she is eligible
to receive share the notations
Lloyd's M.C. and a Machinery-
certificate from - 16-9-1888

MD

23.2.78



© 2019

Lloyd's Register
Foundation