

Report No. 2044

7906. Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER'S CERTIFICATE.

The following is a true Account of the Particulars of the Machinery and Boilers:—

ENGINES.—Here state description of Engines, whether Direct Acting or Geared; Inverted, Horizontal, Diagonal, or Oscillating Cylinders; No. of Cylinders, &c.

*Direct Acting Inverted Cylinders & Surface
Condensing Engines. No of Cylinders Two.*

ENGINES, maker of *Thos Richardson & Sons*
 „ ~~age of~~
 „ ~~last time taken out~~
 „ present condition *New*
 Diameter of Cylinder *36 inches*
 Length of stroke *30 "*
 No. per minute of Engines *70*
 „ of Screw *70*
 Estimated power *86*
 Effective power *360*
 Diameter of Screw (~~or Paddle Wheels~~) *12 " 6*
 Pitch of Screw *16 " 0*
 No. of Blades (~~or Floats~~) *4*
 Description of Screw (~~or Floats~~) *G. W. Saffrey's*
 Holding down Bolts, size *1 1/2 ins.*
 „ present condition *New*

Are the shut-off valves or cocks of all openings for the inlet or outlet of water in connection with the
 Engines & Boilers fitted close to the ship's sides, and are they accessible at all times?

Bilge Pumps, No. (*one*) and size *3 3/4 x 30 Stroke*
 Feed „ No. („) and size „ „ „
 Spare gear, if usual quantity on } *Yes*
 board Vessel
 Fuel, where stowed *Side Bunkers.*
 „ space between Coal Bunkers } *6 "*
 and Boilers
 „ for what quantity is space provided
 Donkey Engine and Boiler *on Deck*
 „ if fitted in Engine Room or } *In Engine Room*
 on Deck
 „ can pump be worked by hand *No. A Separate Hand Pump*
 „ size of pump (*6 1/2*) and stroke *10, Double Acting*
 „ is hose of sufficient length to } *Yes*
 reach every part of the Vessel
 No. () and continuation of hand } *One Hand Pump in Engine Room*
 pumps, if fitted in Engine Room } *12 3/4 x 10 Stroke Single Acting*

BOILER.—Here state description of Boiler, and No.; if Tubular, or Flues; No. of Furnaces; if fitted with superheating apparatus; if Fired
 athwartships, or from fore, or after end of Boiler, &c.

*One Boiler. Circular Tubular. Three Furnaces. fitted
with Superheater, & Fired from fore End.*

BOILER, maker of *Thos Richardson & Sons*
 „ ~~age of~~
 „ ~~when last taken out~~
 „ present condition *New*
 „ working pressure *145 lbs per sq. inch*
 No. of surface Blow off Cocks to } *One Bottom & one Surface*
 each Boiler } *Blow off Cock*

SCREW SHAFT length *76-3* diameter *7 1/4* Tunnel, thickness of plating height *4-6*
 width *3-9* if water-tight door on Engine Bulkhead. *Yes*

Can each Boiler be used separately *Single Boiler.*
 What clear space between top of } *2-6 "*
 Boiler and woodwork
 What clear space between Funnel } *1-0 "*
 and woodwork
 Are Engine and Boiler Keelsons } *Yes*
 well connected fore and aft

Port *Hartlepool* *9th* day of *April* 1870

I hereby certify, that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~)
 Screw (~~or Paddle~~) Steam Vessel "*Magdala*" belonging to
 whereof is Master, Tons Register, and *86* H.P. have been
 carefully inspected and examined by *Me* at *Hartlepool* and *I* found the
 same, at this date, in good order and safe working condition.

George W. Saffrey

Lloyd's Register
Marine Engineers.
Foundation

IRON 502-0255