

REPORT ON MACHINERY.

MONDAY 12 NOV 1883

No. *6314*

Received at London Office

No. in Survey held at *Glasgow*

Date, first Survey *May 29 82*

Last Survey *Nov 8 83*

Reg. Book.

on the *Genl Steam "Methven Castle"*

Tons *2598.10*

Master *Jos Dowdy*

Built at *Glasgow*

By whom built *Wansley & Co Glasgow*

When built *1883*

Engines made at *Glasgow*

By whom made *do*

when made *do*

when made *do*

Boilers made at *Glasgow*

By whom made *do*

when made *do*

when made *do*

Registered Horse Power *270*

Owners *J. Currie & Co*

Port belonging to *LONDON*

ENGINES, &c.—

Description of Engines *Inverted Compound Surface Condensing*

Diameter of Cylinders *36" & 68"* Length of Stroke *48"* No. of Rev. per minute *65* Point of Cut off, High Pressure *1/2* Low Pressure *1/2*

Diameter of Screw shaft *13"* Diam. of Tunnel shaft *12"* Diam. of Crank shaft journals *13"* Diam. of Crank pin *13"* size of Crank webs *9" x 15"*

Diameter of screw *16' 0"* Pitch of screw *20' 0"* Mean No. of blades *4* state whether moveable *Yes* total surface *68 sq feet*

No. of Feed pumps *Two* diameter of ditto *4 1/2"* Stroke *27"* Can one be overhauled while the other is at work *Yes*

No. of Bilge pumps *Two* diameter of ditto *4 1/2"* Stroke *27"* Can one be overhauled while the other is at work *Yes*

Where do they pump from *Bridges of Engine Room. Stockhold Fall. Compartment*

No. of Donkey Engines *one* Size of Pumps *4" dia x 10" Stroke* Where do they pump from *Sea. Cas. Bridges*

of Engine Room. Hotwell Fall. Compartment of Vessel

Are all the bilge suction pipes fitted with roses *Yes* Are the roses always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *Yes*

No. of bilge injections *one* and sizes *8"* Are they connected to condenser, or to circulating pump *Circulating*

How are the pumps worked *The Air pump by Levers. Circulating Pump. Gears 8" pitch*

Are all connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *Both*

Are they fixed sufficiently high on the ship's side to be seen without lifting the stockhold plates *Yes* Are the discharge pipes above or below the deep water line *below*

Are they each fitted with a discharge valve always accessible on the plating of the vessel *Yes* Are the blow off cocks fitted with a spigot and brass covering plate *Yes*

What pipes are carried through the bunkers *Hold. Suctions* How are they protected *Good. Casings*

Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times *Yes*

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges *Yes*

When were stern tube, propeller, screw shaft, and all connections examined in dry dock *Before Launching*

Is the screw shaft tunnel watertight *Yes* and fitted with a sluice door *Yes* worked from *Mid Platform*

of Engine Room. Hotwell Fall. Compartment of Vessel

Superheater or steam chest; how connected to boiler *Stop Valves on Boilers Connected to superheater by Copper pipes*

GLS148-0317 foundation

6314-96

DONKEY BOILER— Description *Multitubular. Circular Top Bottom. Hot Sea*
 Made at *Glasgow* by whom made *Barday Cule & Co* when made *1883* where fixed *on Deck*
 Working pressure *35 lb* tested by hydraulic pressure to *70 lb* No. of Certificate *1140* fire grate area *15 sq ft* description of
 valves *direct Cooled* No. of safety valves *one* area of each *0.3 sq in* if fitted with easing gear *Yes* if steam from main boi
 enter the donkey boiler *No* diameter of donkey boiler *4.6* length *4.0* description of riveting *Single Riv Lap*
 Thickness of shell plates *7/16* diameter of rivet holes *7/16* whether punched or drilled *Yes* pitch of rivets *2* lap of plating *2*
 per centage of strength of joint *59%* thickness of ~~main~~ plates *7/16* stayed by *1 1/2 Stays pitched 13 1/2 x 14*
 Diameter of furnace, top *4.0* bottom *—* length of furnace *4.6* thickness of plates *3/8 & 7/16* description of joint *Single Riv Lap*
 Thickness of furnace ~~main~~ plates *3/8* stayed by *1 3/8 Stays pitched 10 x 10* working pressure of shell by rules
 Working pressure of furnace by rules *40 lb* diameter of uptake *—* thickness of plates *—* thickness of water tubes *—*

SPARE GEAR. State the articles supplied: *The following have been supplied in addi*
to the requirements of the rules. Viz. 1 Propeller shaft & 4 bla
1/2 Crank shaft. 1 Air pump bucket & rod. 1 Pair connecting rod
brushes. 12 Water Cules. 50 Condenser Tubes. 2 safety valves &
 The foregoing is a correct description,
 Manufacturer. *Barday Cule & Co*

General Remarks (State quality of workmanship, opinions as to class, &c.)
The above Engines & Boilers have been constructed
under special survey. The material and workmanship
are of good description. And are now in good
order and safe working condition and in my
opinion eligible to be noted in the Society's
Register & Book **Lloyds M.C. 11. 83**

This amount that this vessel is
eligible to have the registration
£ 2 m 6 11 83 needed
12/1/83

The amount of Entry Fee .. £ *2: 0: 0* received by me,
 Special £ *33: 10: 0*
 Donkey Boiler Fee £ *0: 0: 0*
 Certificate (if required) .. £ *0: 0: 0* *6/11/1883*
 To be sent as per margin.
 (Travelling Expenses, if any, £)

Committee's Minute TUESDAY 13 NOV 1883
+ J.M.C.

J.M.C. Gregor
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

