

REPORT ON MACHINERY.

No. 5631

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No. in Survey held at *Dumbarton*
Reg. Book.

Date, first Survey *30.3.81*

Last Survey *4.3.82* 1882

on the *Screw Steamer "B. Kemény"*

Tons *1324.39*
881.93

Master *James McDonald*

Built at *Dumbarton*

When built *1881.2*

Engines made at *Dumbarton*

By whom made *M. Paul & Co.* when made *1881.2*

Boilers made at *do.*

By whom made *do.* when made *1881.2*

Registered Horse Power *150*

Owners *Admiral Hungarian Sea Nav Co (Lim)*

Port belonging to *Glasgow*

ENGINES, &c.—

Description of Engines *Compound Inverted Direct Acting*

Diameter of Cylinders *30" & 55"* Length of Stroke *36"* No. of Rev. per minute *64* Point of Cut off, High Pressure *6/10* Low Pressure *6/10*

Diameter of Screw shaft *10"* Diameter of Tunnel shaft *9 3/4"* Diameter of Crank shaft journals *10"* Diameter of Crank pin *10"* size of Crank webs *12" x 4"*

Diameter of screw *14' 3"* Pitch of screw *15' 6"* No. of blades *4* state whether moveable *yes* total surface *52 1/4'*

No. of Feed pumps *two* diameter of ditto *4"* Stroke *24"* Can one be overhauled while the other is at work *yes*

No. of Bilge pumps *two* diameter of ditto *4"* Stroke *26"* Can one be overhauled while the other is at work *yes*

Where do they pump from *The Sea Tanks & all Compartments*

No. of Donkey Engines *One 7 Pulomoter* Size of Pumps *8 1/2" & 4" P. 8 1/2"* Where do they pump from *Sea Tanks & all Compartments*

Are all the bilge suction pipes fitted with roses *yes* Are the roses always accessible *yes* Are the ~~cocks~~ *Cocks* on Engine room bulkheads always accessible *yes*

No. of bilge injections *One* and sizes *4 1/2"* Are they connected to condenser, or to circulating pump *Circulating pump*

How are the pumps worked *by levers*

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 stokehold 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 *None* How are they protected *"*

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 *top platform*

BOILERS, &c.—

Number of Boilers *two* Description *Cylindrical Single ended Multitubular Steel*

Working Pressure *80 lbs* Tested by hydraulic pressure to *160 lbs* Date of test *1.1.81*

Description of superheating apparatus or steam chest *None*

Can each boiler be worked separately *yes* Can the superheater be shut off and the boiler worked separately *"*

No. of square feet of fire grate surface in each boiler *340 sq ft* Description of safety valves *Direct Spring*

No. to each boiler *two* area of each valve *9.62"* Are they fitted with easing gear *yes*

No. of safety valves to superheater *"* area of each valve *"* are they fitted with easing gear *"*

Smallest distance between boilers and bunkers or woodwork *12"*

Diameter of boilers *12' 3"* Length of boilers *9' 9"* description of riveting of shell long. seams *double lap* circum. seams *double lap*

Thickness of shell plates *7/8"* diameter of rivet holes *1 3/16"* whether punched or drilled *drilled* pitch of rivets *4' 46"*

Lap of plating *7/4"* per centage of strength of longitudinal joint *41.4* working pressure of shell by rules *80 lbs*

Size of manholes in shell *16 x 12* size of compensating rings *2' 9" x 2' 5" x 7/8"*

No. of Furnaces in each boiler *two* outside diameter *3' 7"* length, top *6' 0"* bottom *9' 0"*

Thickness of plates *1/2"* description of joint *double butt* if rings are fitted *True* greatest length between rings *6' 0"*

Working pressure of furnace by the rules *87 lbs*

Combustion chamber plating, thickness, sides *1/2"* back *1/2"* top *1/2"*

Pitch of stays to ditto *8 1/4" x 9"* sides *8 1/4" x 9"* back *8 1/4" x 9"* top *8 1/4" x 8"*

If stays are fitted with nuts or riveted heads *Nuts* working pressure of plating by rules *95 lbs*

Diameter of stays at smallest part *1 3/8" & 1 1/4"* working pressure of ditto by rules *109 lbs*

End plates in steam space, thickness *1 1/16"* pitch of stays to ditto *14" x 14"* how stays are secured *Nuts & Washers*

Working pressure by rules *82 lbs* diameter of stays at smallest part *2 1/4"* working pressure by rules *83 lbs*


Front plates at bottom, thickness *3/4"* Back plates, thickness *3/4"* greatest pitch of stays *15"* working pressure by rules *77 lbs*

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Diameter of tubes $3\frac{1}{4}$ " pitch of tubes $4\frac{1}{2}$ " thickness of tube plates, front $\frac{3}{4}$ " back $\frac{1}{4}$ "
How stayed *Stay tubes* pitch of stays $13\frac{1}{2} \times 13\frac{1}{2}$ " width of water spaces 4 "
Diameter of Superheater or Steam chest *don't* $3'6"$ length $4'0"$
Thickness of plates $\frac{7}{16}$ " description of longitudinal joint *double lap* diameter of rivet holes $\frac{13}{16}$ " pitch of rivets 3 "
Working pressure of shell by rules 114 " Diameter of flue $"$ thickness of plates $"$
If stiffened with rings $"$ distance between rings $"$ Working pressure by rules $"$
End plates of superheater, or steam chest; thickness $\frac{3}{4}$ " How stayed *4. $1\frac{3}{4}$ stays with angle iron palms, on one end*
Superheater or steam chest; how connected to boiler *Rivited*

DONKEY BOILER— Description *Vertical with four water tubes.*
Made at *Dumbarton* By whom made *M. Paul & Co.* when made *1881.2*
Where fixed *Stockholm* working pressure *50 lbs.* Tested by hydraulic pressure to *100 lbs.* No. of Certificate *634*
Fire grate area *14 sq. ft.* Description of safety valves *direct spring* No. of safety valves *one* area of each *4.14"*
If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no.*
Diameter of donkey boiler *5'9"* length *11'9"* description of riveting *double lap joint*
thickness of shell plates $\frac{7}{16}$ " diameter of rivet holes $\frac{13}{16}$ " whether punched or drilled *drilled*
pitch of rivets 3 " lap of plating 5 " per centage of strength of joint *140 lbs.*
thickness of crown plates $\frac{1}{2}$ " stayed by *4. $1\frac{3}{4}$ rod stays.*
Diameter of furnace, top *4'3"* bottom *5'0"* length of furnace *5'1"*
thickness of plates $\frac{7}{16}$ " description of joint *Single lap*
thickness of furnace crown plates $"$ stayed by $"$
Working pressure of shell by rules $"$ working pressure of furnace by rules $"$
diameter of uptake 14 " thickness of plates $\frac{7}{16}$ thickness of water tubes $\frac{5}{16}$ "

The foregoing is a correct description,
Mathew Paul & Co Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. *The Macmillan & Boilers*)
of this vessel are in good & safe working condition & the workmanship good. & is in my opinion eligible to be noted in the Register Book  *Lloyds M.C. 3.82*

We are fitted in accordance with the Rules. Submitted that she be blessed and have the notification + Lloyd's M.C. 3.82

25 7/3/82

The amount of Entry Fee *£ 3 : 0 : 0* received by me,
Special *£ 22 : 10 : 0*
Certificate (if required) *£ 0 : 0 : 0* 3 March 1882
To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute

Tuesday, March, 7th 1882.

+ Lloyd's

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Lloyd's Register Foundation