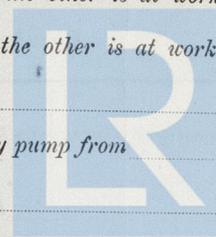


REPORT ON MACHINERY.

No. 10442 from the Survey Port of Glasgow Received at London Office 5th Jan 1891
 No. in Survey held at Glasgow Date, first Survey 20th Dec 1890 Last Survey 8th Jan 1891
 Reg. Book. 144 on the S S "Renfrewshire" (Number of Visits 6)
 Master Madden Built at Glasgow By whom built Blackwood & Gordon When built 1840
 Engines made at Glasgow By whom made Blackwood & Gordon when made 1840
 Boilers made at Glasgow By whom made do when made 1840
 Registered Horse Power 96 Owners R. McKill & Co Port belonging to Glasgow

ENGINES, &c.—

Description of Engines				No. of Cylinders
Diam. of Cylinders	Length of Stroke	Rev. per minute	Point of Cut off, High Pressure	Low Pressure
Diameter of Screw shaft	Diam. of Tunnel shaft	Diam. of Crank shaft journals	Diam. of Crank pin	size of Crank webs
Diameter of screw	Pitch of screw	No. of blades	state whether moveable	total surface
No. of Feed pumps	diameter of ditto	Stroke	Can one be overhauled while the other is at work	
No. of Bilge pumps	diameter of ditto	Stroke	Can one be overhauled while the other is at work	
Where do they pump from				
No. of Donkey Engines	Size of Pumps	Where do they pump from		
Are all the bilge suction pipes fitted with roses				
Are the roses always accessible		Are the sluices on Engine room bulkheads always accessible		
No. of bilge pumps				



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GLS 161-0270

S.S. "R. Penfreshire" 10442 Gls

DONKEY BOILER— Description *Vertical, with three cross water tubes*
Made at *Stockton* by whom made *Kiley Bros* when made *6-12-90* where fixed *Glasgow*
Working pressure *60 lbs* tested by hydraulic pressure to *120 lbs* No. of Certificate *164* fire grate area *21.6 sq ft* description of safety valves *Direct spring* No. of safety valves *One* area of each *1.06 sq ft* if fitted with easing gear *yes* if steam from main boilers can enter the donkey boiler *No* diameter of donkey boiler *6'0"* length *12'0"* description of riveting *Vertical lap double*
Thickness of shell plates *$\frac{3}{8}$ "* diameter of rivet holes *$\frac{13}{16}$ "* whether punched or drilled *punched* pitch of rivets *2 $\frac{1}{2}$ "* lap of plating *4 $\frac{1}{2}$ "*
per centage of strength of joint *71* thickness of crown plates *$\frac{7}{16}$ "* stayed by *6 stays 1 $\frac{1}{2}$ opposite diam.*
Diameter of furnace, top *4'10"* bottom *5'5"* length of furnace *5'9"* thickness of plates *$\frac{1}{2}$ "* description of joint *Lap single*
Thickness of furnace crown plates *$\frac{7}{16}$ "* stayed by *same as crown; stays 1 $\frac{1}{2}$ diam.* working pressure of shell by rules *74 lbs*
Working pressure of furnace by rules *63 lbs* diameter of uptake *15"* thickness of plates *$\frac{7}{16}$ "* thickness of water tubes *$\frac{3}{8}$ "*

SPARE GEAR. State the articles supplied:— *This boiler has now been fitted on board; the safety valves has been adjusted under steam to the working pressure of 60 lbs. and is, in my opinion, in good condition. The above particulars were received from the Surveyors at Middlesbrough.*

The foregoing is a correct description,

Manufacturer.

*R. J. Pennington & Co.
Surveyors Lloyds Register
Glasgow.*

General Remarks (State quality of workmanship, opinions as to class, &c.)



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