



9518 gls

**DONKEY BOILER**— Description *Multitubular (Steel)*  
 Made at *Glasgow* by whom made *John & James Thomson* when made *1889* where fixed *on deck*  
 Working pressure *80 lbs*, tested by hydraulic pressure to *160 lbs*, No. of Certificate *2349*, fire grate area *27* descr. of valves *direct Spring* No. of safety valves *two* area of each *3.14* if fitted with easing gear *yes* if steam from boiler enter the donkey boiler *no* diameter of donkey boiler *9'-0"* length *8'-6"* description of riveting *lap joint*  
 Thickness of shell plates *7/16* diameter of rivet holes *7/8* whether punched or drilled *drill.* pitch of rivets *3 1/2* lap of plating per centage of strength of joint *75%* thickness of <sup>Tube</sup> crown plates *5/8* stayed by *stay tubes*  
 Diameter of furnace, top *34"* bottom *—* length of furnace *5'-9"* thickness of plates *7/16* description of joint *d. butt*  
 Thickness of furnace <sup>front</sup> crown plates *7/16* stayed by *—* working pressure of shell by rules *87 1/2*  
 Working pressure of furnace by rules *83 lbs* diameter of uptake *3 1/4"* thickness of plates *—* thickness of water tubes *—*

**SPARE GEAR.** State the articles supplied: <sup>1 pair top & bottom</sup> connecting rod brasses, 1 air pump bucket & rod, circulating delta set air & circulating pump valves, 2 feed valves and seats, 4 connecting rod bolts & nuts, 2 main bearing bolts, 8 coupling bolts, 15 condenser tubes, <sup>complete set</sup> escape valve springs, 12 brass bolts, set of main boiler firebars for 3 plates of iron, 1 patent tube expander, 4 safety valve springs, 12 boiler tubes, 1 catch-brace and 12 drills, 1 anvil, 100 iron bolts & nuts, 1 fitter's vice, 1 copper hammer, 1 set of files and dies, 4 sets block & tackle, 12 gauge glasses, complete set of engineers tools, hammers, chisels etc. 1 piece crank shaft, 1 propeller shaft, 1 screw solid iron propeller.

The foregoing is a correct description,

Manufacturer. *John & James Thomson*  
*Dist 4<sup>th</sup> 1889*

**General Remarks** (State quality of workmanship, opinions as to class, &c.) *The above mentioned engines and boilers have been built under special survey and are now completed on board the vessel in a satisfactory manner. This machinery is now in my opinion eligible to the notation: T.L.M.C. 12.89*

*Large blue ink signature or stamp, possibly 'Glasgow' or similar, written diagonally across the page.*

*It is submitted that this vessel is eligible for notation T.L.M.C. 12.89 recorded 9-12-89*

The amount of Entry Fee .. £ *3* : - : - received by me,  
 Do of ... £ *40* : - : -  
 Certificate (if required) .. £ : - : -  
 To be sent as per margin.

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

Comptroller's Minute **FRIDAY 13 DEC 1889**  
*L.M.C. 12/89*

**Lloyd's Register of Shipping**  
*Glasgow*  
 Foundation