

DONKEY BOILER— Description *Cylindrical multitubular. Material Iron*
 Made at *Flensburg* by whom made *Flensburger Schiffbau Gesellschaft*, when made *1891*, where fixed *on main deck*
 Working pressure *100 lbs* tested by hydraulic pressure to *200 lbs* ^{date of test} No. of Certificate *13.11.90*, fire grate area *11.5 sq. ft.* description of safety valves *Spring* No. of safety valves *2*, area of each *1 3/8* if fitted with easing gear *yes* if steam from main boilers can enter the donkey boiler *no*, diameter of donkey boiler *4 1/4* length *8 1/2* description of riveting *dbl butt str. beehive riv.*
 Thickness of shell plates *6* diameter of rivet holes *1* whether punched or drilled *drilled* pitch of rivets *4 1/2* lap of plating *7 1/2*
 per centage of strength of joint *78%* thickness of ~~end~~ plates *3/4* stayed by *Iron stays 2 3/4" thread 1 1/4" brackets on small stays 1 1/8" thread 8" x 8" pitch*
 Diameter of furnace, top *3 3/2* bottom *3 1/2* length of furnace *5 5* thickness of plates *2* description of joint *single butt str. single riv.*
 Thickness of furnace crown plates *2* stayed by *stays 1 3/8" thread 8" x 8" pitch with nuts* working pressure of shell by rules *108 lbs.*
 Working pressure of furnace by rules *121 lbs.* diameter of ^{domed} uptake *3 ft.* thickness of plates *9/16* thickness of water tubes *3 1/4*

SPARE GEAR. State the articles supplied:— *1 Propeller, 1 tail end shaft compl. 3 crankshaft, 1 sliderod, 1 pair bearings for conn. rod top & bottom end 2 bolts for each, 2 bolts for main bearings, 2 brasses for 8" crank for pump gear compl. 1 air pump, 1 circul. pump rod, 1 set valves for air, circul. & ballast pumps, 4 valves & seats for feed & bilge pumps, 2" for donkey feed pump, 1 set coupling bolts, 2 springs for safety valves 8" for cylinder escape valves, 25 condens. tubes 100 ft. for 5" 20" boiler, 1 set stay tubes, 1 set fire bar, 12 bolts & nuts for pistons, 1 packing ring & spring for each piston, 6 valves & seats for feed check valves, bolts & nuts, nuts, Iron of various sizes i.e. assorted.*

The foregoing is a correct description,
Flensburger-Schiffbau-Gesellschaft. Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c.)
Materials and workmanship of these engines and boilers are of very best quality, the outfit and the number of spare gear is ample.

I attended a satisfactory engine trial on the 7th February 1891, when the machinery worked satisfactory.
The safety valves are correctly adjusted to 85 and 100 lbs respectively on the Main & Donkey Boilers.
The copies of the invoices of the Steel Boiler plates, signed by the testing officers are in my hands.
The total heating surface is 3850 sq. ft. and the paying horsepower by rule 245.

I beg to recommend that this vessel be classed in the Register Book and that T.M.C 2.91 be entered.

W. D. B.

It is submitted that this vessel is eligible to have T.M.C 2-91 recorded
W.D.
12-2-91

The amount of Entry Fee .. £ 3: 0: 0 received by me,
 Special .. £ 32: 5: 0
 Donkey Boiler Fee .. £ 2: 2: 0
 Certificate (if required) .. £ yes : 10/2 1891
 To be sent as per margin.
 (Travelling Expenses, if any, £ 5: 7: 0)

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

Committee's Minute **FRI. 13 FEB 1891**
+ L.M.C 2.91

Certificate to Steam Survey Officers.