

Port of GlasgowReceived at London Office JUN 23 1903No. in Survey held at Glasgow  
Reg. Book. on theDate, first Survey 7<sup>th</sup> Nov 02 Last Survey 10<sup>th</sup> June 1903

(Number of Visits)

Tons { Gross 1155  
Net 566When built 1903Master S. S. "YUKON" Built at Glasgow By whom built MacKie, Thomson & CoEngines made at Glasgow By whom made D. Rowan & Co when made 1903Boilers made at Glasgow By whom made D. Rowan & Co when made 1903Registered Horse Power 177 Owners J. de Boulanger Port belonging to SwanseaNom. Horse Power as per Section 28 177 Is Refrigerating Machinery fitted No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple expansion - Screw No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 19", 30", 50" Length of Stroke 33" Revs. per minute 90 Dia. of Screw shaft 10.99" Material of screw shaft iron  
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube no Is the after end of the liner made water tight  
 in the propeller boss yes If the liner is in more than one length are the joints burned no If the liner does not fit tightly at the part  
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓ If two  
 liners are fitted, is the shaft lapped or protected between the liners no Length of stern bush 3" 9"  
 Dia. of Tunnel shaft 9.20" Dia. of Crank shaft journals 9.66" Dia. of Crank pin 9 3/4" Size of Crank webs 6 1/4" Dia. of thrust shaft under  
 collars 9 3/4" Dia. of screw 13" 0" Pitch of screw 14" 0" No. of blades 4 State whether moveable no Total surface 51 sq. ft.  
 No. of Feed pumps 2 Diameter of ditto 2 1/2" Stroke 18" Can one be overhauled while the other is at work yes  
 No. of Bilge pumps 2 Diameter of ditto 3" Stroke 18" Can one be overhauled while the other is at work yes  
 No. of Donkey Engines 3 Sizes of Pumps 8" x 10" x 8" - 8" x 5" x 8" - 5 1/4" x 3 1/2" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room Three 2 1/2" dia. In Holds, &c. Two 2 1/2" in each hold, & One 2 1/2" in tunnel well.  
 No. of bilge injections 1 sizes 4" Connected to condenser, or to circulating pump yes Is a separate donkey suction fitted in Engine room & size yes 3"  
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none  
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks valves & cocks  
 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 above  
 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 and all boiler mountings accessible at all times yes  
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes  
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock before launch Is the screw shaft tunnel watertight yes  
 Is it fitted with a watertight door yes worked from top platform

BOILERS, &c.— (Letter for record (S) Total Heating Surface of Boilers 3014 sq. ft. Is forced draft fitted no  
 No. and Description of Boilers 2 Single ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs  
 Date of test 7/5/03 Can each boiler be worked separately yes Area of fire grate in each boiler 52 sq. ft. No. and Description of safety valves to  
 each boiler 2 Patent spring Area of each valve 5.94" Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 13" 0" Length 10" 0" Material of shell plates steel  
 Thickness 1 1/16" Range of tensile strength 28-32 Are they welded or flanged no Descrip. of riveting: cir. seams double long. seams treble  
 Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 8 1/16" Lap of plates or width of butt straps 1" 4 1/2"  
 Per centages of strength of longitudinal joint 86 Working pressure of shell by rules 180 lbs Size of manhole in shell 16" x 12"  
 Size of compensating ring 7" x 1 1/4" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 3 3/4"  
 Length of plain part top 6" 4" bottom 8" 5" Thickness of plates top 2 3/32" bottom 2 1/32" Description of longitudinal joint welded No. of strengthening rings none  
 Working pressure of furnace by the rules 180 lbs Combustion chamber plates: Material steel Thickness: Sides 19/32" Back 5/8" Top 19/32" Bottom 15/16"  
 Pitch of stays to ditto: Sides 7 1/2" x 8 1/4" Back 7 5/8" x 8 1/4" Top 7 1/2" x 8 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 196 lbs  
 Material of stays steel Area at smallest part 1.48" Area supported by each stay 61.8" Working pressure by rules 191 lbs End plates in steam space:  
 Material steel Thickness 1 3/32" Pitch of stays 18" x 18 1/2" How are stays secured nuts Working pressure by rules 190 lbs Material of stays steel  
 Area at smallest part 6.22" Area supported by each stay 333" Working pressure by rules 186 lbs Material of Front plates at bottom steel  
 Thickness 13/16" Material of Lower back plate steel Thickness 13/16" Greatest pitch of stays 13 1/2" x 8 1/4" Working pressure of plate by rules 208 lbs  
 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates steel Thickness: Front 13/16" + Back 13/16" Mean pitch of stays 10.4"  
 Pitch across wide water spaces 14 1/4" Working pressures by rules 262 lbs Girders to Chamber tops: Material steel Depth and  
 thickness of girder at centre 7 1/4" x 2-1" Length as per rule 29" Distance apart 8 1/2" Number and pitch of Stays in each 3 - 7 1/2"  
 Working pressure by rules 191 lbs Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked  
 separately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet  
 holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓  
 If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓  
 Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

[2010-7-02-Copyable Ink.]

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Lloyd's Register

00203-00223-0103



DONKEY BOILER— No. One Description ordinary Vertical. (14 tubes)  
Made at Gateshead By whom made Clark, Chapman & Co. When made 1903 Where fixed in stokehold  
Working pressure 90 lbs tested by hydraulic pressure to 180 lbs No. of Certificate 6573 Fire grate area 19.7<sup>sq</sup> ft Description of safety valves 2 safety valves  
No. of safety valves 2 Area of each 3.98<sup>sq</sup> ft Pressure to which they are adjusted 90 lbs If fitted with easing gear yes If steam from main boilers can enter the donkey boiler no Dia. of donkey boiler 6' 0" Length 12' 6" Material of shell plates steel Thickness 7/16" Range of tensile strength 27-37 Descrip. of riveting long. seams double (lap) Dia. of rivet holes 7/8" Whether punched or drilled drilled Pitch of rivets 3 3/16"  
Lap of plating 4 1/8" Per centage of strength of joint Rivets 73.3 Plates 72.5 Thickness of shell crown plates 19/32" Radius of do. 5' 0" No. of Stays to do. 6  
Dia. of stays. 1 3/4" Diameter of furnace Top 4' 8" Bottom 5' 1 1/2" Length of furnace 4' 11" Thickness of furnace plates 19/32" Description of joint riveted Thickness of furnace crown plates 19/32" Stayed by as above 1 row 1 1/2 stays Working pressure of shell by rules 98 lbs  
Working pressure of furnace by rules 90 lbs Diameter of uptake 15" Thickness of uptake plates 9/16" Thickness of water tubes 3/8"

SPARE GEAR. State the articles supplied:— Two top end & two bottom end connecting rod bolts, 3 main bearing bolts, one set of coupling bolts, & one set of feed & bilge valves. &c.

The foregoing is a correct description,

YOURS FAITHFULLY,

For DAVID ROWAN & CO

Manufacturer.

Dates of Survey while building { During progress of work in shops - 1902 Nov 7, 10, 13, 18, 25 Dec 3, 10, 11, 23, 29 1903 Jan 8, 14, 27, 29 Feb 5, 12, 16 Mar 10, 17, 19, 21 Apr 7, 16, 24, 28  
During erection on board vessel - May 4, 7, 13, 18, 19, 25 Jun 4, 10.  
Total No. of s 33.

Is the approved plan of main boiler forwarded herewith yes.

" " " donkey " " " yes.

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

The machinery of this vessel has been constructed under special survey, the material & workmanship are of good quality, it has been securely fitted on board, tried under steam & found satisfactory. In my opinion, it is eligible to be classed in the Register Book & to have the record of L.M.C. 6.03.

It is submitted that this vessel is eligible for THE RECORD - L M C 6:03

23.6.03

24.6.03

The amount of Entry Fee. £ 2 : : When applied for, 18.6.03  
Special .. .. £ 26 : 11 : 24  
Donkey Boiler Fee .. .. £ : : 23.6.03  
Travelling Expenses (if any) £ : : 19

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

Committee's Minute

Glasgow 22 JUN 1903

Assigned

L.M.C. 6.03.

When fee is paid

MACHINERY CERTIFICATE  
WRITTEN 25-6-03



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Foundation