

Port of Glasgow

Received at London Office JUN 23 1903

No. in Survey held at Glasgow Date, first Survey 7th Nov 02 Last Survey 10th June 1903

Reg. Book. on the S.S. "YUKON" (Number of Visits)

Tons Gross 1155 Net 566

Master Built at Glasgow By whom built Mackie, Thomson & Co When built 1903

Engines made at Glasgow By whom made D. Rowan & Co when made 1903

Boilers made at Glasgow By whom made D. Rowan & Co when made 1903

Registered Horse Power Owners J. de Boulauger Port belonging to Swansea

Nom. 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 as per rule 10.99 as fitted 11.74 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 as per rule 9.20 as fitted 9.14 Dia. of Crank shaft journals as per rule 9.66 as fitted 9.34 Dia. of Crank pin 9.34 Size of Crank webs 6.4 Dia. of thrust shaft under collars 9.34

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 2.5 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 8x10x8-8x5x8-5/4x3/2x5 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Three 2.5 dia. In Holds, &c. Two 2.5 in each hold, & One 2.5 in tunnel well

No. of bilge injections 1 sizes 4 Connected to condenser, or to circulating pump pump 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 260 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 1/16 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 1/8 Pitch of rivets 8.16 Lap of plates or width of butt straps 1.4 1/2

Per centages of strength of longitudinal joint rivets 86 plate 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 37 1/4

Length of plain part top 6.4 bottom 8.5 Thickness of plates crown 23/32 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

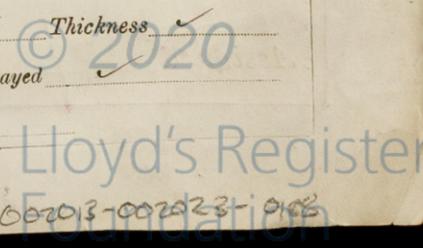
Working pressure by rules 191 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately

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?



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* Description of safety valves *without spring*
 No. of safety valves *2* Area of each *3.98* 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* 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. Etc.*

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 — *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

J.W.D.
 23.6.03
 24.6.03

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

J.W. Dimmock
 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



Certificate (if required) to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)