

REPORT ON MACHINERY.

Port of Glasgow

No. in Survey held at Glasgow

Date, first Survey 15 Nov 1901 Last Survey 1 March 1902

Reg. Book.

on the

SHIP

"URANIA"

"How Speedonia"

(Number of Visits 5)

Tons }
Gross
Net

Master F. A. H. Wolter Built at Dumbarton

By whom built A. McMillan & Son

When built 1902

Engines made at

By whom made

when made

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Description of Engines		No. of Cylinders	No. of Cranks
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft as per rule as fitted
Dia. of Tunnel shaft as per rule as fitted	Dia. of Crank shaft journals as fitted	Dia. of Crank pin	Lgth. of stern bush
collars	Dia. of screw	Pitch of screw	No. of blades
No. of Feed pumps	Diameter of ditto	Stroke	State whether moveable
No. of Bilge pumps	Diameter of ditto	Stroke	Total surface
No. of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps	
In Engine Room		In Holds, &c.	
No. of bilge injections	sizes	Connected to condenser, or to circulating pump	Is a separate donkey suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses	Are the roses in Engine room always accessible	Are the sluices on Engine room bulkheads always accessible	
Are all connections with the sea direct on the skin of the ship	Are they Valves or Cocks		
Are they fixed sufficiently high on the ship's side to be seen without lifting the stowhold plates	Are the discharge pipes above or below the deep water line		
Are they each fitted with a discharge valve always accessible on the outside of the vessel	Are the blow off cocks fitted with a spigot and brass covering plate		
What pipes are carried through the bunkers	How are they protected		
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times			
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges			
When were stern tube, propeller, screw shaft, and all connections examined in dry dock	Is the screw shaft tunnel watertight		
Is it fitted with a watertight door	worked from		

BOILERS, &c.—

(Letter for record)

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of Boilers	Working Pressure	Tested by hydraulic pressure to
Date of test	Can each boiler be worked separately	Area of fire grate in each boiler
each boiler	Are of each valve	Pressure to which they are adjusted
Smallest distance between boilers or uptakes and bunkers or woodwork	Mean dia. of boilers	Length
Thickness	Range of tensile strength	Are they welded or flanged
Diameter of rivet holes in long. seams	Pitch of rivets	Descr. of riveting: cir. seams
Per centages of strength of longitudinal joint	Working pressure of shell by rules	Size of manhole in shell
Size of compensating ring	No. and Description of Furnaces in each boiler	Material
Length of plain part	Thickness of plates	Description of longitudinal joint
Working pressure of furnace by the rules	Combustion chamber plates: Material	Thickness: Sides
Pitch of stays to ditto	Sides	Back
Material of stays	Diameter at smallest part	Area supported by each stay
Material	Thickness	Pitch of stays
Diameter at smallest part	Area supported by each stay	Working pressure by rules
Thickness	Material of Lower back plate	Thickness
Diameter of tubes	Pitch of tubes	Material of tube plates
Pitch across wide water spaces	Working pressures by rules	Girders to Chamber tops: Material
thickness of girder at centre	Length as per rule	Distance apart
Working pressure by rules	Superheater or Steam chest; how connected to boiler	Can the superheater be shut off and the boiler worked separately
holes	Diameter	Length
If stiffened with rings	Distance between rings	Working pressure by rules
Working pressure of end plates	Area of safety valves to superheater	Are they fitted with easing gear

Donkey Boilers

DONKEY BOILER— No. *One* Description *Saknt vertical*
 Made at *Amman* By whom made *Cochran & Co* When made *1902* Where fixed *on deck*
 Working pressure *80* tested by hydraulic pressure to *160 lbs* No. of Certificate *6119* Fire grate area *18 1/2* Description of safety valves *saknt*
 No. of safety valves *2* Area of each *4.91* Pressure to which they are adjusted *80 lbs* If fitted with easing gear *yes* If steam from main enter the donkey boiler
 Dia. of donkey boiler *5" 0"* Length *10" 9"* Material of shell plates *steel* Thickness *13/32"* Range strength *27632* Descrip. of riveting long. seams *double* Dia. of rivet holes *25/32"* Whether punched or drilled *drilled* Pitch of rivets *1"*
 Lap of plating *3 7/8"* Per centage of strength of joint *76.2* Rivets *7/16"* Thickness of shell crown plates *3/8"* Radius of do. *2" 6"* No. of Stays to dia. of stays. *✓* *Radius* Diameter of furnace Top *2" 0"* Bottom *✓* Length of furnace *✓* Thickness of furnace plates *7/16"* De joint *riveted* Thickness of furnace crown plates *7/16"* Stayed by *none* Working pressure of shell by rule *109 lbs* Diameter of *tubes* uptake *3 1/2"* Thickness of *tube* uptake plates *5/8" + 25/32"* Thickness of *stay* tubes *1/4"*

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
 During progress of work in shops - - *1901: - Nov. 15, Dec. 6, 13, 1902: - Jan. 16, Mar 11.*
 During erection on board vessel - - *5.*
 Total No. of visits *5.*
 Is the approved plan of main boiler forwarded herewith
 " " " donkey " " "

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

Material of screw shaft *Is the screw shaft fitted with a continuous liner the whole length of the stern tube*
 Is the after end of the liner made water tight in the propeller boss *If the liner is in more than one length are the joints burned*
 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 non-corrosive *If two liners are fitted, is the shaft lapped or protected between the liners*

This donkey boiler has been constructed under special survey, the material & workmanship are of good quality. It has been securely fastened on board, & safety valve adjusted under steam.
In our opinion this boiler is eligible to be classed in the Register Book D.B.S. 3.02.

It is submitted that this vessel is eligible for THE RECORD. **NDB 3.02**

C.M.
18.3.02

Certificates (if required) to be sent to Committee's Minute.

The amount of Entry Fee.	£	:	:	When applied for
Special	£	:	:	<i>Cochran</i>
Donkey Boiler Fee	£	2	2	When received
Travelling Expenses (if any) £	:	:	:	

Committee's Minute *Glasgow. 17 MAR 1902*

Assigned

D.B. 02

J.W. Dimmock R.A.M.
 Engineer Surveyor to Lloyd's Register of British & Foreign Steamships

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 FRI. JUN. 4 - 1915
 FRI. DEC. 10. 1915
 FRI. 12. MAY. 1916
 FRI. AUG. 18. 1916
 FRI. - 9. FEB. 1917