

REPORT ON MACHINERY.

Port of GlasgowNo. in Survey held at GlasgowDate, first Survey 15 Nov 1901 Last Survey 1 March 1902

Reg. Book.

on the

SHIP

"URANIA" *"How Speedonia"*

Received at London Office

Tons { Gross
NetMaster F. A. H. Wolter Built at Dumbarton By whom built A. McMillan & Son When built 1902Engines made at ☒ By whom made ☒ when made 10Boilers made at ☒ By whom made ☒ when made ☒Registered Horse Power ☒ Owners ☒ Port belonging toNom. 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	Lgth. of stern bush
Dia. of Tunnel shaft as per rule as fitted	Dia. of Crank shaft journals as per rule as fitted	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under collars
Dia. of screw	Pitch of screw	No. of blades	State whether moveable	Total surface
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work	
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 plating 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	No. and Description of safety valves to each boiler
Are of each valve	Pressure to which they are adjusted	Are they fitted with easing gear	
Smallest distance between boilers or uptakes and bunkers or woodwork	Mean dia. of boilers	Length	Material of shell plates
Thickness	Range of tensile strength	Are they welded or flanged	Descrip. of riveting: cir. seams long. seams
Diameter of rivet holes in long. seams	Pitch of rivets	Lap of plates or width of butt straps	
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	Outside diameter
Length of plain part top bottom	Thickness of plates crown bottom	Description of longitudinal joint	No. of strengthening rings
Working pressure of furnace by the rules	Combustion chamber plates: Material	Thickness: Sides	Back Top Bottom
Pitch of stays to ditto	Sides Back Top	If stays are fitted with nuts or riveted heads	Working pressure by rules
Material of stays	Diameter at smallest part	Area supported by each stay	Working pressure by rules
Material	Thickness	Pitch of stays	How are stays secured
Diameter at smallest part	Area supported by each stay	Working pressure by rules	Material of Front plates at bottom
Thickness	Material of Lower back plate	Thickness	Greatest pitch of stays
Diameter of tubes	Pitch of tubes	Material of tube plates	Thickness: Front Back
Pitch across wide water spaces	Working pressures by rules	Girders to Chamber tops: Material	Depth and thickness of girder at centre
Length as per rule	Distance apart	Number and pitch of Stays in each	
Working pressure by rules	Superheater or Steam chest; how connected to boiler	Can the superheater be shut off and the boiler worked separately	
Diameter	Length	Thickness of shell plates	Material
Pitch of rivets	Working pressure of shell by rules	Diameter of flue	Material of flue plates
If stiffened with rings	Distance between rings	Working pressure by rules	End plates: Thickness
Working pressure of end plates	Area of safety valves to superheater	Are they fitted with easing gear	

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"* Rang
strength *27632* Descrip. of riveting long. seams *double* Dia. of rivet holes *25/32"* Whether punched or drilled *drilled* Pitch of ri
Lap of plating *3 7/8"* Per centage of strength of joint *70.2* Rivets *7/16"* Thickness of shell crown plates *3/8"* Radius of do. *2' 6"* No. of Stays to d
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
Working pressure of furnace by rules *109 lbs* Diameter of *tubes* *3 1/2"* Thickness of *tube* *5/8"* *25/32"* Thickness of *stay* *1/4"*

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates { During progress of } *1901: - Nov. 15. Dec. 6. 13. 1902: - Jan. 16. Mar 11.*
of Survey { work in shops - - }
while { During erection on }
building { board vessel - - }
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*

CM
18.3.02

The amount of Entry Fee. . . £ : :
Special £ : :
Donkey Boiler Fee £ *2* : *2* :
Travelling Expenses (if any) £ : :
When applied for *Cochran & Co*
When received *1902*

Committee's Minute *Glasgow. 17 MAR 1902*

Assigned

D.B. 02

J.W. Dimmock & A. Mc
Engineer Surveyor to Lloyd's Register of British & Foreign S

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

FRI. - 9 FEB. 1917