

## REPORT ON MACHINERY

No. 17205  
WED. NOV. 14 1917.

Received at London Office

Date of writing Report 16 Jan'y 1917 When handed in at Local Office 10<sup>th</sup> Nov. 1917. Port of GreenockNo. in Survey held at Port Glasgow Date, First Survey 12<sup>th</sup> Jan'y, 1917, Last Survey 16<sup>th</sup> Feb'y, 1917.  
Reg. Book. on the Steel Steamer Montilla. (Number of Visits 3)

Master Built at Port Glasgow By whom built Russell &amp; Co. When built 1917

Engines made at Glasgow 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 for cargo purposes Yes Is Electric Light fitted

## ENGINES, &amp;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	Material of screw shaft
		as fitted	
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 water and non-corrosive			
If two			
liners are fitted, is the shaft lapped or protected between the liners			
Length of stern bush			
Dia. of Tunnel shaft	Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs
as per rule	as per rule		
as fitted	as fitted		
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 Yes Are they Valves or Cocks both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold 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 Yes

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

Dates of examination of completion of fitting of Sea Connections 26/1/17 of Stern Tube 12/1/17 Screw shaft and Propeller 16/2/17

Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

## BOILERS, &amp;c.—(Letter for record ) Manufacturers of Steel

Total Heating Surface of Boilers		Is Forced Draft fitted	No. and Description of Boilers
Working Pressure	Tested by hydraulic pressure to	Date of test	No. of Certificate
Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of Safety Valves to	
each boiler	Area 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 the shell plates 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	Thickness of plates	Description of longitudinal joint	No. of strengthening rings
top	bottom		
Working pressure of furnace by the rules	Combustion chamber plates: Material	Thickness: Sides	Back
Pitch of stays to ditto: Sides	Back	Top	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
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
holes	Pitch of rivets	Working pressure of shell by rules	Diameter of flue
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	



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - (1917) Jan. 12. 26. Feby. 16.  
During erection on board vessel - - -  
Total No. of visits 3.

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods  
Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller  
Stern tube Steam pipes tested Engine and boiler seatings *1 inch 1/4* Engines holding down bolts  
Completion of pumping arrangements Boilers fixed Engines tried under steam  
Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Identification Mark on Do. Material of Thrust shaft Identification Mark on Do.  
Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.  
Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150° F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case If so, state name of vessel

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

*This vessel proceeds to Glasgow where the machinery and boiler will be fitted.*

Certificate (if required) to be sent to.

The amount of Entry Fee ... £ : : When applied for.  
Special ... £ : : 19  
Donkey Boiler Fee ... £ : : When received.  
Travelling Expenses (if any) £ : : 19

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

Committee's Minute GLASGOW 13 NOV. 1917  
Assigned *See Glasgow Report No. 37259*



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