

REPORT ON MACHINERY.

No. 17136

Received at London Office NOV 19 1916

Date of writing Report 2/5/1917 When handed in at Local Office 2/5/1917 Port of Greenock.
 No. in Survey held at Port Glasgow. Date, First Survey 14/12/16 Last Survey 21/12/1916
 Reg. Book. on the S.S. "RUMOL" (Number of Visits 2)
 Master Built at Port Glasgow. By whom built Russell & Co Tons } Gross
 Engines made at Glasgow. By whom made J. Brown & Co when made 1917. } Net
 Boilers made at _____ By whom made _____ when made _____
 Registered Horse Power _____ Owners The Lord Commissioners of the Admiralty belonging to London.
 Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes 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
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	
Between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive		If the liner does not fit tightly at the part	
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
Collars	Dia. of screw	Pitch of Screw	No. of Blades
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 <u>Yes</u>			
Are they Valves or Cocks <u>Both</u>			
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 <u>Yes</u>			
Are the Blow Off Cocks fitted with a spigot and brass covering plate <u>Yes</u>			
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 <u>21/12/16</u> of Stern Tube <u>14/12/16</u> Screw shaft and Propeller <u>21/12/16</u>			
Is the Screw Shaft Tunnel watertight			
Is it fitted with a watertight door			
worked from			

OILERS, &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		
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		
End plates in steam space:		
Material	Thickness	Pitch of stays
How are stays secured		
Working pressure by rules		
Material of stays		
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		
Working pressure of plate by rules		
Diameter of tubes	Pitch of tubes	Material of tube plates
Thickness: Front		
Back		
Mean pitch of stays		
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	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		



VERTICAL DONKEY BOILER— *Manufacturers of Steel*

No.	Description				
Made at	By whom made		When made	Where fixed	
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with casing gear	If steam from main boilers can enter the donkey boiler			Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops -- (1916); Dec: 14-21.
 { During erection on board vessel -- --
 Total No. of visits 2.

Is the approved plan of main boiler forwarded herewith

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 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

General Remarks (State quality of workmanship, opinions as to class, &c. *Propellers & fastenings of sea connections examined before launching.*)

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

The amount of Entry Fee .. £	:	:	When applied for,
Special .. £	:	:18.....
Donkey Boiler Fee .. £	:	:	When received,
Travelling Expenses (if any) £	:	:18.....

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

Committee's Minute

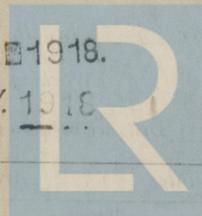
FRI. 4 MAY. 1917

Assigned

See rpt. attached

TUE. JAN. 1 1918.

FRI. 24 MAY. 1918.



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