

REPORT ON MACHINERY.

No. 17136

Received at London Office NOV 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} _{Net}

Engines made at Glasgow. By whom made S. Brown & Co When built 1917.

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

Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cylinders	No. of Cranks
			as per rule		Material of
			as fitted		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 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	Dia. of thrust shaft under	
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 Yes 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 21/12/16 of Stern Tube 14/12/16 Screw shaft and Propeller 21/12/16

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
Thickness	Range of tensile strength	Material of shell plates
long. seams	Are the shell plates welded or flanged	Descrip. of riveting: cir. 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
top	bottom	
		No. of strengthening rings
Working pressure of furnace by the rules	Combustion chamber plates: Material	Thickness: Sides
		Back
Pitch of stays to ditto: Sides	Back	Top
		Bottom
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
Holes	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

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 easing 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

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 amount of Entry Fee .. £ : : When applied for, _____

Special .. £ : : _____

Donkey Boiler Fee .. £ : : _____

Travelling Expenses (if any) £ : : _____

Committee's Minute

Assigned

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

TUE. JAN. 1 1918.

FRI. 24 MAY. 1918.

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