

REPORT ON MACHINERY

No. 16914
WED. 22. SEP. 1915

Received at London Office

Date of writing Report 18th Sept. 1915 When handed in at Local Office 18th Sept. 1915 Port of Greenock

No. in Survey held at Port Glasgow Date, First Survey 23/6/16 Last Survey 29/6/1915
Reg. Book. S.S. "TARA" Number of Visits 2

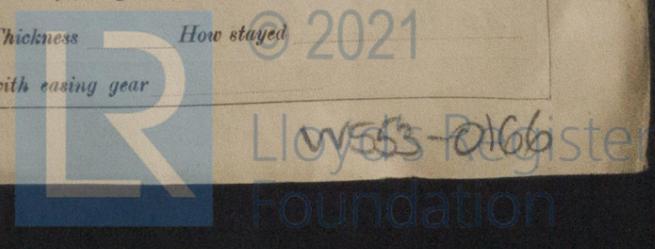
Master Built at Port Glasgow By whom built Russell & Co Tons 1915
Engines made at Glasgow By whom made Dunsmuir & Jackson when made 1915
Boilers made at _____ By whom made _____ when made _____
Registered Horse Power _____ Owners Bombay & Paris Steam Navigation Co Ltd Port belonging to Liverpool
Nom. 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 two liners are fitted, is the shaft lapped or protected between the liners	
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	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 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 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	
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>23/6/15</u> of Stern Tube <u>23/6/15</u> Screw shaft and Propeller <u>29/6/15</u>			
Is the Screw Shaft Tunnel watertight		Is it fitted with a watertight door	

BOILERS, &c.—(Letter for record)

Description of Boilers		No. and Description of Boilers
Total Heating Surface of Boilers	Is Forced Draft fitted	Date of test
Working Pressure	Tested by hydraulic pressure to	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
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	Diameter of rivet holes in long. seams	Descrip. 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	Top
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	Greatest pitch of stays
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	Pitch of rivets	Working pressure of shell by rules
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



If not, state whether, used when, one will be sent?
 Is a Report also sent on the Hull of the Ship?
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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 - - } { During erection on board vessel - - - } Total No. of visits

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 29/6/15 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. Propeller & fastenings of sea connections examined before launching & found in order.)

Table with 4 columns: Fee type, Amount (£), When applied for, When received. Rows include Entry Fee, Special, Donkey Boiler Fee, Travelling Expenses.

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

Committee's Minute GLASGOW 21 SEP. 1915

Assigned See Glasgow Report No. 35459



Vertical text on the right edge of the page, including 'Rpt. 4.', 'Date of visit', 'No. in Reg. Book 184', 'Master', 'Engines m', 'Boilers', 'Registered', 'Nom. Hor.', 'ENGINE', 'Dia. of Cy', 'Is the scr', 'in the p', 'between th', 'liners are', 'Dia. of Tur', 'collars', 'No. of Fe', 'No. of Bil', 'No. of Don', 'In Engine', 'No. of Bilge', 'Are all the', 'Are all con', 'Are they fia', 'Are they eac', 'What pipes', 'Are all Pip', 'Are the Bil', 'Dates of ex', 'Is the Scro', 'BOILER', 'Total Heat', 'Working I', 'Can each bo', 'each boiler', 'Smallest dist', 'Thickness', 'long. seams', 'Per centages', 'Size of comp', 'Length of pl', 'Working pre', 'Pitch of stay', 'Material of', 'Material area Diameter at Thickness |', 'Diameter of', 'Pitch across', 'thickness of', 'Working pre', 'separately', 'holes', 'If stipend on Working pre'

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

20/9/15