

Rpt. 4.

REPORT ON MACHINERY.

Received at London Office

Date of writing Report 20th Jan'y 1919 When handed in at Local Office 30th Jan'y 1919 Port of Greenock
 No. in Survey held at Port Glasgow Date, First Survey 8th Nov. 1918 Last Survey 28th Jan'y 1919
 Reg. Book. on the Steel S.S. "Imperial" (NOMA) (Number of Visits 5)
 Master C. H. Butler Built at Port Glasgow By whom built Robert Duncan & Co. Ltd. Tons {Gross 5552.76
 Engines made at Glasgow By whom made David Rowan & Co. Ltd. when made Net 3476.88
 Boilers made at _____ By whom made _____ when made When built 1919
 Registered Horse Power _____ Owners The Imperial Japanese Navy Port belonging to Tokyo
 Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

Imperial S.S. (1919)

ENGINES, &c.—Description of Engines

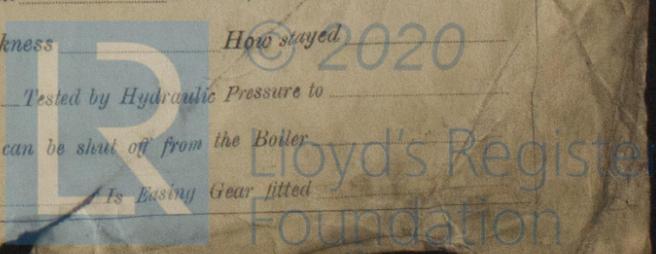
Description of Engines			No. of Cylinders	No. of Cranks
Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft as per rule as fitted	Material of screw shaft
Is the screw shaft fitted with a continuous liner the whole length of the stern tube in the propeller boss			Is the after end of the liner made water tight	
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 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 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				
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 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	
Material of stays	Area 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
Area 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
Working pressure across wide water spaces	Working pressures by rules		Girders to Chamber tops: Material	
Thickness of girder at centre	Length as per rule	Distance apart	Number and pitch of stays in each	
Working pressure by rules	Steam dome: description of joint to shell		% of strength of joint	
Diameter of Safety Valve	Thickness of shell plates	Material	Description of longitudinal joint	Diam. of rivet holes
Pitch of rivets	Working pressure of shell by rules		Crown plates	Thickness

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Is Easing Gear fitted _____



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 -- (1918). Nov. 8. Dec. 18. (1919). Jan. 8. 24. 28:—
During erection on board vessel ---
Total No. of visits 5.

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 27/1/19. Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections 28/1/19. Stern tube 28/1/19. Screw shaft and propeller 28/1/19.

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.)

Vessel taken to Glasgow for machining and Boilers to be fitted.

RETAIN

The amount of Entry Fee ... £ ...
Special ... £ ...
Donkey Boiler Fee ... £ ...
Travelling Expenses (if any) £ ...

When applied for. 19
When received. 19

Graham Robertson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 2001 1919

Assigned See Glasgow Report 38840

TUE 1-JUL 1919



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Certificate (if required) to be sent to
The Surveyors of the Registrar and to be placed on or below the space for Committee's Minute.