

REPORT ON MACHINERY.

Received at London Office WED. AUG. 13, 1919

Date of writing Report 1st August 1919. When handed in at Local Office of Greenock.
 No. in Survey held at Port Glasgow. Date, First Survey 1st April, 1919. Last Survey 7th April 1919.
 Reg. Book. on the Steel Screw Steamship "War Mogul". (Number of Vols. 2) Tons { Gross 5548.00
 Net 3422.17.
 Master R. Parker Built at Port Glasgow By whom built Robert Duncan & Co. Ltd. When built 1919.
 Engines made at Glasgow. By whom made David Rowan & Co. Ltd. when made
 Boilers made at _____ By whom made _____ when made
 Registered Horse Power _____ Owners The Shipping Controller Port belonging to London.
 Nom. Horse Power as per Section 28 517 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINES, &c.—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** _____ **Dia. of thrust shaft under**
 as per rule _____ 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 _____ **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** _____

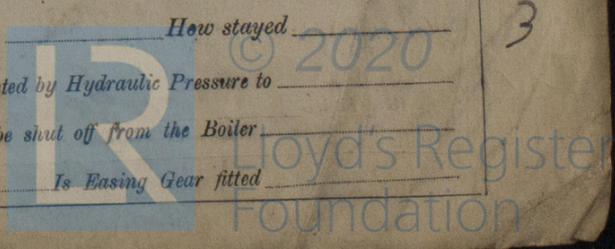
BOILERS, &c.—(Letter for record _____) Manufacturers of Steel _____

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 _____ **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** _____ **Material of stays** _____
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** _____
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 _____ **Steam dome: description of joint to shell** _____ **% of strength of joint** _____
Diameter _____ **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** _____ **How stayed** _____
SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

If not, state whether, and when, one will be sent

Is a Report also sent on the Hull of the Ship?

1710-187m



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Boiler removed from vessel

Wagnaff

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - (1919) April: 1-7.
During erection on board vessel - - -
Total No. of visits 2.

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

Completion of fitting sea connections 7-4-19 Stern tube 1-4-19 Screw shaft and propeller 7-4-19.

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 machinery to be fitted.

HC.
11-8-19.

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 £	:	:	19
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19

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

Committee's Minute GLASGOW 12 AUG 1919 FRI. MAR 19 1920

Assigned *See Glasgow Report No 39002.*



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