

Rpt. 4.

REPORT ON MACHINERY

No. 19406
SAT. DEC. 20, 1919

Received at London Office

Date of writing Report 15 Dec 1919 When handed in at Local Office 19 Port of Newport Mon
No. in Survey held at 6 Chapstow Date, First Survey 1 Sept Last Survey 11 Dec 1919
Reg. Book. on the S/S War Trench (Number of Visits 7) Gross Tons 3080
Master Built at Chapstow By whom built E. Smith & Co (1914) Ltd When built 1914
Engines made at Glasgow By whom made D. Rowan & Co (No 712) when made 1919
Boilers made at Do By whom made Balcroft & Wilson (No 425) when made 1919
Registered Horse Power Owners Shipping Controller Port belonging to London
Nom. Horse Power as per Section 28 513 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

See S/S Rpt No 38574

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 Is the after end of the liner made water tight
in the propeller boss Yes 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 2 Diameter of ditto 4 1/2" Stroke 21" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 3 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 10 1/2" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 1 1/2" 2 1/2" 3" 4" 5" 6" 8" 10" 12" 14" 16" 18" 20" 22" 24" 26" 28" 30" 32" 34" 36" 38" 40" 42" 44" 46" 48" 50" 52" 54" 56" 58" 60" 62" 64" 66" 68" 70" 72" 74" 76" 78" 80" 82" 84" 86" 88" 90" 92" 94" 96" 98" 100"

No. of Bilge Injections 1 sizes 8" Connected to condenser or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2"

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Yes except blow down cocks except main disch.
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line all above

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 Cold bilge suction How are they protected Wood casings

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Eng. Top platform

BOILERS, &c.—(Letter for record) Manufacturers of Steel See S/S Rpt No 39825

Total Heating Surface of Boilers 8269 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 3 Balcroft & Wilson WT Marine

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 6.11.19/19 No. of Certificate Nos 6.7.28.

Can each boiler be worked separately Yes Area of fire grate in each boiler 84.5 sq ft No. and Description of Safety Valves to each boiler 2 Spring loaded dia. of each valve 3 1/2" Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes.

Smallest distance between boilers or uptakes and bunkers or woodwork 6' 0" 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 rivets 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 Thickness of plates crown Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom Working pressure by rules

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space:

Material of stays Area at smallest part Area supported by each stay Working pressure by rules Material of stays

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom

Area at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules

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

IS A DONKEY BOILER FITTED? *Yes* If so, is a report now forwarded? *Yes see Rpt No*

SPARE GEAR. State the articles supplied:— *One propeller 2 Coz: and top end bolts & nuts, 2 bottom end 2 main bearing bolts & nuts, one set of coupling bolts & nuts, set of washers for duplex feed pumps & helix pumps. & spare gear as per amended specifications*

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

1919 Sept 1 Nov 6. 11. 17. 26, Dec 6th + 11th
7

Is the approved plan of main boiler forwarded herewith

No

Dates of Examination of principal parts—Cylinders	Slides	Covers	Pistons	Rods
Connecting rods	Crank shaft	Thrust shaft	Tunnel shafts	Screw shaft
Stern tube	Steam pipes tested	Engine and boiler seatings	Engines holding down bolts	Propeller
Completion of pumping arrangements	6 Dec	Boilers fixed	6 Nov	Engines tried under steam
Completion of fitting sea connections	1 Sept	Stern tube	1 Sept	Screw shaft and propeller
Main boiler safety valves adjusted	6 Dec	Thickness of adjusting washers	<i>Stbdn P¹/₂" S¹/₂" Centre P¹/₂" S¹/₂" Port P¹/₂"</i>	
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	<i>Steel</i>	Test pressure	<i>570 lbs 15"</i>	
Is an installation fitted for burning oil fuel	<i>No</i>	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? *Yes*
Is this machinery duplicate of a previous case? *Yes* If so, state name of vessel *War Forest Rpt Rpt 1913*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The Machinery has now been fitted on board tried under steam & found satisfactory & is now eligible for the Record of L.M.C. 12.19*

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 12.19. F.D.

3 WATER TUBE BOILERS Subject to the Water Tube Boilers being surveyed annually.

Certificate (if required) to be sent to

Installation *£17.0.0*
Boiler *£17.0.0*

The amount of Entry Fee	£	:	:	When applied for,
Special	£	:	:	16 Dec 1919
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	23/12/19

Thos M. Gibson *John B.A. Compton*
Engineer Surveyor to Lloyd's Register of Shipping

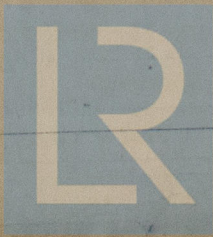
Committee's Minute

Assigned

TUE 30 DEC 1919

+ *LMC 12.19*

Wm. T. B. B. B.
F.D.



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