

REPORT ON MACHINERY.

Received at London Office

Date of writing Report Oct. 30 1918 When handed in at Local Office Oct. 30 1918 Port of Montreal THU. 28 NOV. 1918
 No. in Survey held at Montreal Date, First Survey Mar. 5 Last Survey Oct. 21 1918
 Reg. Book. on the S.S. "War Faith" (Number of Visits 49) Gross 4342 Tons Net 2598
 Master W. R. Williams Built at Montreal By whom built Canadian Vickers Ltd. When built
 Engines made at Montreal By whom made Canadian Vickers Ltd. when made 1918
 Boilers made at Montreal By whom made Canadian Vickers Ltd. when made 1918
 Registered Horse Power 266.46 Owners Imperial Munitions Board Port belonging to Montreal
 Nom. Horse Power as per Section 28 474 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

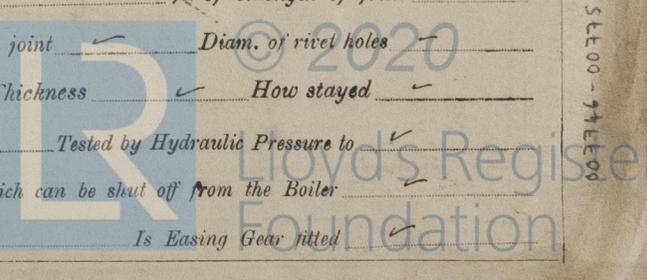
ENGINES, &c.—Description of Engines Triple Expansion Super Condensing No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 27"-44"-73" Length of Stroke 48" Revs. per minute 74 Dia. of Screw shaft 14.75" Material of shaft S
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube No 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 No solder 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 Yes If two
 liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 5'0"
 Dia. of Tunnel shaft 13.33" Dia. of Crank shaft journals 14.0" Dia. of Crank pin 14.5" Size of Crank webs 52x28x9" Dia. of thrust shaft under
 collars 14.5" Dia. of screw 14.5" Pitch of Screw 16'6" No. of Blades 4 State whether moveable No Total surface 72.45 sq
 No. of Feed pumps 2 Weirs Diameter of ditto 9 1/2 x 7" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 1 General Sizes of Pumps 8" x 9" x 12" & 10" x 7" x 10" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2-3" 1-3 1/2" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3" 1-3"
 No. of Bilge Injections 1 sizes 9" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 4"
 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 Both
 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 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 None How are they protected Yes
 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 Top ER platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Lukens & Co. Pa.
 Total Heating Surface of Boilers 6660 sq Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 29-8-18 No. of Certificate 39
 Can each boiler be worked separately Yes Area of fire grate in each boiler 58 sq No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 8.3 Pressure to which they are adjusted 183 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 13" Mean dia. of boilers 14'3" Length 11'9" Material of shell plates S
 Thickness 1 3/16" Range of tensile strength 28-32 TONS Are the shell plates welded or flanged No Descrip. of riveting: cir. seams 8 x 2 1/2"
 long. seams 8 x 3 1/2" Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 8 1/2" Lap of plates or width of butt straps 18 1/2"
 Per centages of strength of longitudinal joint rivets 90% Working pressure of shell by rules 186 Size of manhole in shell 16" x 12"
 Size of compensating ring 37 1/2" x 30" x 1 3/8" No. and Description of Furnaces in each boiler 3 Scillon Material S Outside diameter 46 1/2"
 Length of plain part top 9'0" Thickness of plates crown 9/16" Description of longitudinal joint Butt No. of strengthening rings 1
 bottom 9'0" Working pressure of furnace by the rules 190 Combustion chamber plates: Material S Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 1/16"
 Pitch of stays to ditto: Sides 9" x 7 1/2" Back 8 1/2" x 8 1/4" Top 8 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads Stub Working pressure by rules 193
 Material of stays S Area at smallest part 1.76 sq Area supported by each stay 70.1 sq Working pressure by rules 200 End plates in steam space:
 Material S Thickness 1 1/2" Pitch of stays 15" x 14" How are stays secured Stub Working pressure by rules 195 Material of stays S
 Area at smallest part 5.27 Area supported by each stay 255 sq Working pressure by rules 216 Material of Front plates at bottom S
 Thickness 1 3/16" Material of Lower back plate S Thickness 1 3/16" Greatest pitch of stays 13 1/2" x 8 1/2" Working pressure of plate by rules 189
 Diameter of tubes 2 1/2" Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates S Thickness: Front 1 3/16" Back 1 1/16" Mean pitch of stays 7 1/2" x 11 1/4"
 Pitch across wide water spaces 13 1/2" x 7 1/2" Working pressures by rules 186 Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 10" x 1 1/2" Length as per rule 2' 9 1/2" Distance apart 8 1/2" Number and pitch of stays in each 3 - 7 1/2"
 Working pressure by rules 216 Steam dome: description of joint to shell Yes % of strength of joint Yes
 Diameter Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yes
 Pitch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

SUPERHEATER. Type Yes Date of Approval of Plan Yes Tested by Hydraulic Pressure to Yes
 Date of Test Yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve Yes Pressure to which each is adjusted Yes Is Easing Gear fitted Yes

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

1080-55500-474E00



IS A DONKEY BOILER FITTED? *No.*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

1 Screen shaft	3 boiler stay tubes	6 bars assorted iron
2 connecting Rod bolts & nuts top end	1 section of crank shaft	1 set of fire bars
2 " " " " bottom end	100 assorted bolts & nuts for engine	1 set of piston springs
2 Main bearing bolts & nuts	100 " " " " boiler	50 ferrules
1 set of coupling bolts	1 set of boiler check valves	3 nut stoppers
1 set of bilge pump valves & seats	6 ylf cover bolts	6 piston studs & nuts
1 set of safety valve springs	4 valve chest bolts	2 plates of iron

The foregoing is a correct description,

FOR CANADIAN YACHTERS LIMITED

A. Miller

Manufacturer.

Dates of Survey while building

During progress of work in shops -- During erection on board vessel --- Total No. of visits	} Mar 5. 14. 26. Apr. 1. 20. May 3. 14. 12. 20. 22. 25 June 5. 10. 11. 15. 18. 24. 26. July 2. 5. 8. 12. 17. 18. 22. 25 Aug. 1. 6. 7. 9. 14. 19. 26. 26	}	
			} Apr. 4. 6. 8. 10. 16. 26. 28
			} Oct. 5. 7. 9. 12. 15. 17. 19. 21.

Is the approved plan of main boiler forwarded herewith *No*

Dates of Examination of principal parts—

Cylinders	11-6-18	Slides	26-9-18	Covers	16-9-18	Pistons	16-9-18	Rods	16-9-18		
Connecting rods	9-9-18	Crank shaft	5-7-18	Thrust shaft	13-7-18	Tunnel shafts	19-8-18	Screw shaft	21-8-18	Propeller	6-9-18
Stern tube	6-9-18	Steam pipes tested	8-10-18	Engine and boiler seatings	26-9-18	Engines holding down bolts	7-10-18				
Completion of pumping arrangements	26-9-18	Boilers fixed	9-10-18	Engines tried under steam	12-10-18						
Completion of fitting sea connections	26-9-18	Stern tube	8-9-18	Screw shaft and propeller	16-9-18						
Main boiler safety valves adjusted	17-10-18	Thickness of adjusting washers	Port 1 3/4 P. 5.07	Starboard 1 3/4 P. 5.20	Starboard 1 3/4 P. 4.07						
Material of Crank shaft	S.	Identification Mark on Do.	W.J.A.	Material of Thrust shaft	S.	Identification Mark on Do.	O.T.N.				
Material of Tunnel shafts	S.	Identification Marks on Do.	W.J.A.	Material of Screw shafts	S.	Identification Marks on Do.	W.J.A.				
Material of Steam Pipes	Steel	Test pressure	540 lbs.								

Is an installation fitted for burning oil fuel *No* 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 *Yes* If so, state name of vessel "War Duchess" - "War Earl"

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engines and boilers of this vessel have been constructed under special survey and in accordance with the rules. The material and workmanship are good. The engines & boilers have been efficiently fitted on board and have been tried under steam together with all the auxiliary machinery and all were found to be working satisfactorily. The safety valves were adjusted under steam to blow at 185 lbs per sq in. The boilers are of good workmanship and the material has been tested in accordance with the rules. They have been tested by water pressure to 360 lbs and found tight. The joints of the screw shaft liners having been soldered, should in my opinion be specially examined when the shaft is drawn for inspection.

It is submitted that this vessel is eligible for THE RECORD + LMC 10.18. F.D. Subject to the Screw Shaft being specially examined at joint of liner before the end of October 1920.

J.W.D. 4/12/18. *W.E.S.*

The amount of Entry Fee ... £ 15.00
 Special ... £ 218.00
 Donkey Boiler Fee ... £ :
 Travelling Expenses (if any) £ 15.35

When applied for, Oct 23 1918
 When received, 11/11/18
A. J. Alderson
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute Assigned

FRI 6 DEC 1918

+ L.M.C. 1018 Subject. F.D.



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Montreal

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