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# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report *31<sup>st</sup> May 1928* When handed in at Local Office *31<sup>st</sup> May 1928* Port of *West Hartlepool*  
 No. in Survey held at *Hartlepool* Date, First Survey *23<sup>rd</sup> May* Last Survey *14<sup>th</sup> Dec 1927*  
 Reg. Book. on the *Twin S.S. No 497 "Quebec"* (Number of Visits *95*)  
 Built at *Levis, Quebec* By whom built *The Davie S. Repg Co Ltd* Yard No. *497* Tons { Gross *7015.59*  
 Engines made at *Hartlepool* By whom made *Richardson's Westgarth* Engine No. *2669* When built *1927* Net *2481.01*  
 Boilers made at *ditto* By whom made *" "* Boiler No. *2669* when made *1927*  
 Registered Horse Power Owners *Canada Steamship Lines Ltd* Port belonging to *Montreal*  
 Nom. Horse Power as per Rule *790* Is Refrigerating Machinery fitted for cargo purposes *no* Is Electric Light fitted *yes*  
 Trade for which Vessel is intended *Passenger & Freight Service between Montreal & Saguenay*

**ENGINES, &c.**—Description of Engines *Twin Screw four cylinder triple expansion* Revs. per minute *125*  
 Dia. of Cylinders *24"-38"-44"-44"* Length of Stroke *36* No. of Cylinders *8* No. of Cranks *8*  
 Crank shaft, dia. of journals as per Rule *4.77"* as fitted *12"* Crank pin dia. *12 1/2"* Crank webs Mid. length breadth *2 1/8"* Thickness parallel to axis *7 1/2"*  
 Intermediate Shafts, diameter as per Rule *11.21"* as fitted *11 3/8"* Thrust shaft, diameter at collars as per Rule *11.77"* as fitted *12"*  
 Tube Shafts, diameter as per Rule */* as fitted */* Screw Shaft, diameter as per Rule *12.65"* as fitted *12 3/4"* Is the { tube } shaft fitted with a continuous liner { *yes* }  
 Bronze Liners, thickness in way of bushes as per Rule *.685"* as fitted *3/4"* Thickness between bushes as per Rule *3/4"* as fitted *3/4"* Is the after end of the liner made watertight in the propeller boss *yes*  
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner *yes*  
 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 *fitting*  
 If two liners are fitted, is the shaft lapped or protected between the liners *yes* Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft *no* Length of Bearing in Stern Bush next to and supporting propeller *4'6"*  
 Propeller, dia. *12'0"* Pitch *15'6"* No. of Blades *4* Material *Bronze* whether Moveable *yes* Total Developed Surface *51* sq. feet  
 Feed Pumps worked from the Main Engines, No. *none* Diameter Stroke Can one be overhauled while the other is at work  
 Bilge Pumps worked from the Main Engines, No. *none* Diameter Stroke Can one be overhauled while the other is at work  
 Feed Pumps { No. and size *2 main 13 1/2" x 10" x 24"* Pumps connected to the { No. and size *1 Bilge 9" x 10" x 10"* }  
 How driven *steam* Main Bilge Line How driven *steam* *dup.*  
 Ballast Pumps, No. and size *1 10" x 14" x 15" duplex* Lubricating Oil Pumps, including Spare Pump, No. and size *1*  
 Are two independent means arranged for circulating water through the Oil Cooler *yes* Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room *4 of 3" dia (fittings supplied)*  
 In Holds, &c. *see ltr 2577/28 + plans*

**Main Water Circulating Pump Direct Bilge Suctions, No. and size** *2 of 8"* **Independent Power Pump Direct Suctions to the Engine Room Bilges,**  
 No. and size *1 of 4 1/2" (fittings supplied)* Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes *yes*  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight lead pipes to the bilges *yes*  
 Are all Sea Connections fitted direct on the skin of the ship *no* Are they fitted with Valves or Cocks *yes*  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *yes* Are the Overboard Discharges 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 pass through the bunkers *none* How are they protected  
 What pipes pass through the deep tanks *none* Have they been tested as per Rule *yes*  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *yes*  
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another *yes* Is the Shaft-Tunnel watertight *yes* Is it fitted with a watertight door *yes* worked from *main deck*

**MAIN BOILERS, &c.**—(Letter for record *S*) Total Heating Surface of Boilers *12656 square feet*  
 Is Forced Draft fitted *yes* No. and Description of Boilers *6 single ended* Working Pressure *190 lbs*  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? *Yes*  
 IS A DONKEY BOILER FITTED? *Yes* If so, is a report now forwarded? *See Middlebro' report*  
 PLANS. Are approved plans forwarded herewith for Shafting *yes* Main Boilers *yes* Auxiliary Boilers *yes* Donkey Boilers *yes*  
 Superheaters *yes* General Pumping Arrangements Oil fuel Burning Piping Arrangements *yes*

**SPARE GEAR.** State the articles supplied:—*2 connec rod top end bolts and nuts of each size, 2 bottom end ditto of each size 4 main bearing ditto, 2 sets of coupling bolts and nuts, 1 set of piston rings and springs for each size, 1 propeller shaft & nut, 8 cast iron propeller blades, 3 bolts for propeller shaft muff coupling, 3 main feed check valves, 3 aux. feed check valves, 2 air pumps, steam valve chest, piston rings pump, bucket rings & group valves for one pump, for circulating pumps, impeller & shaft, piston rings & rod for one engine, for main feed, general service ballast, bilge, sanitary, hot water, & fresh water pumps, packing rings for pistons & pump buckets for each size & one set of valves, seats & springs. Also various spare parts for air pumps & fan engines. Assorted bolts, nuts and iron*

The foregoing is a correct description, FOR RICHARDSON'S WESTGARTH & Co Ltd.

(S) W. J. Guthrie, General Manager (Hartlepool Works)

Manufacturer.



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