

R'pt. 4.  
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M. W. Rpt.  
No. 6080

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

17 APR 1944

Date of writing Report Jan. 18th 1944 When handed in at Local Office Dec. 1st 1943 Port of MONTREAL, QUE.  
 No. in Survey held at MONTREAL, QUE. Date, First Survey Nov. 4, 1943 Last Survey Nov. 23, 1943  
 Reg. Book on the Single Screw Steamer "LOUISBOURG PARK" (Number of Visits) Constant attendance  
 Tons } Gross 160.33  
 Net 4244.61  
 Built at North Vancouver, B.C. By whom built Burrard Dry Dock Co. Ltd. Yard No. 199 When built  
 Engines made at LACHINE, P. Q. By whom made CANADIAN ALLIS-CHAMBERS LTD. Engine No. 258 When made 1943  
 Boilers made at By whom made Boiler No. When made  
 Registered Horse Power Owners Port belonging to  
 Nom. Horse Power as per Rule 628 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes  
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 76  
 Dia. of Cylinders 24 1/2" x 37" x 70" Length of Stroke 48 No. of Cylinders 3 No. of Cranks 3  
 Crank shaft, dia. of journals as per Rule 14.21" <sup>14.21</sup> Crank pin dia. 14 1/4" Crank webs Mid. length breadth - - Thickness parallel to axis 9" & 9 1/2" L.P.  
 as fitted 14 1/2" Mid. length thickness - - shrunk Thickness around eye-hole 7.125  
 Intermediate Shafts, diameter as per Rule 13.53" Thrust shaft, diameter at collars as per Rule 14.21" <sup>14.21</sup>  
 as fitted 13.5" as fitted 14.25"  
 Tube Shafts, diameter as per Rule - - Screw Shaft, diameter as per Rule 15.07" <sup>15.07</sup> Is the ~~shaft~~ shaft fitted with a continuous liner Yes  
 as fitted - - as fitted 15.25"  
 Bronze Liners, thickness in way of bushes as per Rule .76" Thickness between bushes as per Rule .565" Is the after end of the liner made watertight in the  
 as fitted .78125" as fitted .68" 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 Solid  
 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 tight fit  
 If two liners are fitted, is the shaft lapped or protected between the liners - - Is an approved Oil Gland or other appliance fitted at the after end of the tube  
 shaft No If so, state type - - Length of Bearing in Stern Bush next to and supporting propeller 61"  
 Propeller, dia. 18'-6" Pitch 16'-0" No. of Blades 4 Material Bronze whether Moveable Solid Total Developed Surface 117 sq. ft.  
 Feed Pumps worked from the Main Engines, No. None Diameter 0 Stroke - Can one be overhauled while the other is at work -  
 Bilge Pumps worked from the Main Engines, No. Two Diameter 4 1/2" Stroke 26" Can one be overhauled while the other is at work Yes  
 Feed (No. and size) Pumps connected to the (No. and size)  
 Pumps (How driven) Main Bilge Line (How driven)  
 Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size  
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps;—In Engine and Boiler Room  
 In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges  
 Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges 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 pass through the bunkers How are they protected  
 What pipes pass through the deep tanks Have they been tested as per Rule  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times  
 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 Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.— (Letter for record ) Total Heating Surface of Boilers  
 Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters  
 No. and Description of Boilers Working Pressure 250 lbs./sq. in. (Spht. 230 lbs./sq. in.).

IS A REPORT ON MAIN BOILERS NOW FORWARDED?  
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? - -  
 Can the donkey boiler be used for domestic purposes only - -

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers  
 (If not state date of approval)  
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

## SPARE GEAR.

Has the spare gear required by the Rules been supplied  
 State the principal additional spare gear supplied

The foregoing is a correct description  
 CANADIAN ALLIS-CHAMBERS LIMITED

Per [Signature]

Manufacturer.



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003467-003473-0138

Dates of Survey while building:
 

- During progress of work in shops: Nov. 4, 1943 to Nov. 23, 1943 (constant attendance)
- During erection on board vessel: \_\_\_\_\_
- Total No. of visits: \_\_\_\_\_

Dates of Examination of principal parts — Cylinders 8/11/43 15/11/43 10/11/43 Slides 8/11/43 15/11/43 10/11/43 Covers 8/11/43 15/11/43 10/11/43  
 Pistons 15/11/43 10/11/43 8/11/43 Piston Rods 23/11/43 Connecting rods 15/11/43  
 Crank shaft 23.11.43 Thrust shaft 23.11.43 Intermediate shafts \_\_\_\_\_  
 Tube shaft \_\_\_\_\_ Screw shaft \_\_\_\_\_ Propeller \_\_\_\_\_  
 Stern tube \_\_\_\_\_ Engine and boiler seatings \_\_\_\_\_ Engines holding down bolts \_\_\_\_\_

Completion of fitting sea connections \_\_\_\_\_  
 Completion of pumping arrangements \_\_\_\_\_ Boilers fixed \_\_\_\_\_ Engines tried under steam \_\_\_\_\_  
 Main boiler safety valves adjusted \_\_\_\_\_ Thickness of adjusting washers \_\_\_\_\_

Crank shaft material **0 H Steel** Identification Mark **LLOYD'S 1306 M.D. 23.11.43** Thrust shaft material **0 H Steel** Identification Mark **LLOYD'S 7 M.D. 23.11.43**

Intermediate shafts, material \_\_\_\_\_ Identification Marks \_\_\_\_\_ Tube shaft, material \_\_\_\_\_ Identification Mark \_\_\_\_\_

Screw shaft, material \_\_\_\_\_ Identification Mark \_\_\_\_\_ Steam Pipes, material \_\_\_\_\_ Test pressure \_\_\_\_\_ Date of Test \_\_\_\_\_

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 the Rules for the use of oil as fuel been complied with \_\_\_\_\_

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo \_\_\_\_\_ If so, have the requirements of the Rules been complied with \_\_\_\_\_

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with \_\_\_\_\_

Is this machinery duplicate of a previous case **Yes** If so, state name of vessel **S/S "FORT TADOUSSAC" & S/S "FORT CHAMPELAIN"**

**General Remarks (State quality of workmanship, opinions as to class, &c.) This ENGINE has been constructed under Special Survey accordance with the Rules and Approved Plans. The materials and workmanship are good. The cylinders were tested hydrostatically to 330, 110 and 30 lbs. pressure per square inch respectively, and found tight under those pressures. This ENGINE has been fitted with CAST STEEL Connecting Rods. The ENGINE has now been shipped to VANCOUVER, B. C. for installation and official trials. It is recommended for the favourable consideration of the Committee that the record of + L.M.C. (with date) be made in the Register Book in the case of this Vessel, subject to satisfactory installation and sea trials.**

The amount of Entry Fee ... \$ 30.<sup>00</sup> : ) When applied for,  
 Special ... \$ 267.<sup>00</sup> : ) **6.18.44**  
 Donkey Boiler Fee ... \$ : ) **11.2.44** **VCR**  
 Travelling Expenses (if any) \$ 13.<sup>50</sup> : ) **RL**

**B. Gardy**  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute \_\_\_\_\_ THURS 27 APR 1944  
 Assigned **Lee fe. made, rpl.**  
 Ver. 6102



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