

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 **December 10 1943** Port of **MONTREAL, QUE.**
 No. in Survey held at **MONTREAL, QUE.** Date, First Survey **Nov. 8, 1943.** Last Survey **Dec. 3, 1943**
 Reg. Book No. **6,** on the **Single Screw Steamer "FORT WALLACE"** (Number of Visits) **Constant attendance**
 Tons } Gross **7160.62**
 Net **4244.65**
 Built at **North Vancouver, B.C.** By whom built **Burrard Dry Dock Co. Ltd.** Yard No. **200** When built
 Engines made at **LACHINE, P. Q.** By whom made **CANADIAN ALLIS-CHALMERS LTD.** Engine No. **259** 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"** Crank pin dia. **14 1/4"** Crank webs Mid. length breadth - sbrunk Thickness parallel to axis **9" & 9 1/2" L.P.**
 as fitted **14 1/2"** Mid. length thickness - Thickness around eye-hole **7.125**
 Intermediate Shafts, diameter as per Rule **13.53"** Thrust shaft, diameter at collars as per Rule **14.21"**
 as fitted **13.5"** as fitted **14.25"**
 Tube Shafts, diameter as per Rule - Screw Shaft, diameter as per Rule **15.07"** Is the ~~rod~~ screw 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 **61"**
 If so, state type - Length of Bearing in Stern Bush next to and supporting propeller **117** sq. ft.
 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 - 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 Pumps (No. and size) Pumps connected to the Main Bilge Line (No. and size)
 How driven 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
 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
 F.1. 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.)**

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

ANS. 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.

Is the spare gear required by the Rules been supplied
 Is the principal additional spare gear supplied

The foregoing is a correct description
CANADIAN ALLIS-CHALMERS LIMITED
 Per *[Signature]*

Manufacturer.



Dates of Survey while building:

- During progress of work in shops: Nov. 8, 1943 to Dec. 3, 1943 (constant attendance)
- During erection on board vessel: - - -

 Total No. of visits: - - -

Dates of Examination of principal parts — Cylinders 23/11/43 18/11/43 Slides 23/11/43 18/11/43 Covers 23/11/43 18/11/43
 Pistons 23/11/43 18/11/43 12/11/43 Piston Rods 2/12/43 Connecting rods 24/11/43
 Crank shaft 3.12.43 Thrust shaft 2.12.43 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 O H Steel Identification Mark LLOYD'S 1331 B.H. 3.12.43 Thrust shaft material O H Steel Identification Mark LLOYD'S 8674 B.H. 2.12.43
 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 CHAMBLAY"

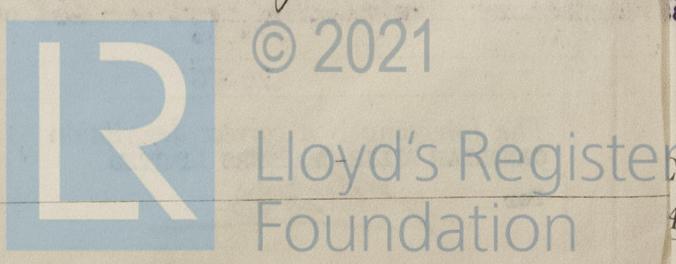
General Remarks (State quality of workmanship, opinions as to class, &c.) This ENGINE has been constructed under Special Survey in accordance with the Rules and Approved Plans. The materials and workmanship are good. The cylinders were tested hydrostatically to 330, 110 and 30 lbs. pressure per square inch respectively, and found tight under those pressures. 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 ... \$ 30.00
 Special ... \$ 267.00
 Donkey Boiler Fee ... \$ 50.00
 Travelling Expenses (if any) \$ 13.00

When applied for, Feb. 18, 1944
 When received, Feb. 21, 1944 VCR
 PR

B. Hardy
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute THURS 27 APR 1944
 Assigned See for machy rpt Ycr. 6116



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