

RPT. 4 REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 9 SEP 1943

Date of writing Report **10th, May 1943** When handed in at Local Office **26th, April, 1943** Port of **Montreal, P.Q.**
 No. in Survey held at **Montreal, P.Q.** Date, First Survey **3rd. Feb. 1943** Last Survey **28th. April 1943**
 Reg. Book. on the **SINGLE SCREW STEAMER - "YOHU PARK"** (Number of Visits **31**)
 Built at **VICTORIA, B.C.** By whom built **VICTORIA MACHINERY DEPOT CO. LTD.** Yard No. **28** When built
 Engines made at **Lachine, P.Q.** By whom made **Dominion Engineering Works Limited.** Engine No. **95** 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 **504** 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 **13.99"** Crank pin dia. **14 1/2"** Mid. length breadth **---** Thickness parallel to axis **9" & 9 1/2" L.P.**
 as fitted **14 1/2"** Crank webs **---** Mid. length thickness **---** Thickness around eye-hole **7.125**
 Intermediate Shafts, diameter as per Rule **13.33"** Thrust shaft, diameter at collars as per Rule **13.99"**
 as fitted **13.5"** as fitted **14.25"**
 Tube Shafts, diameter as per Rule **---** Screw Shaft, diameter as per Rule **14.87"** Is the **---** shaft fitted with a continuous liner **Yes**
 as fitted **---** as fitted **15.25"** as per Rule **.565"**
 Bronze Liners, thickness in way of bushes as per Rule **.75"** Thickness between bushes as per Rule **.68"** Is the after end of the liner made watertight in the
 as fitted **.78125"** as fitted **---** 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 **---** 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 Main Bilge Line (No. and size) _____ 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 Holds, &c. _____
 In Pump Room _____

The 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 mounings 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 **S**) Total Heating Surface of Boilers **7140 Square Feet**
 Which Boilers are fitted with Forced Draft **All Three** Which Boilers are fitted with Superheaters **All Three**
 No. and Description of Boilers **3 Single Ended Multitubular.** Working Pressure **220 lb./ Sq. In.**
IS A REPORT ON MAIN BOILERS NOW FORWARDED? **Yes**

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
DOMINION ENGINEERING WORKS LIMITED
 Per **H. Almasan** Manufacturer.



3, 15, 26 February. 6, 9, 12, 15, 18, 19, 20, 22, 24, 25, 26, 31 March. 1, 2, 5, 6, 8, 9, 10,

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

13, 15, 16, 19, 20, 22, 26, 27, 28, April.

Dates of Examination of principal parts - Cylinders 3.2.43, 10.3.43, 10.4.43 Slides 3.2.43, 10.3.43, 10.4.43 Covers 3.2.43, 10.3.43, 10.4.43
Pistons 3.2.43, 10.3.43, 10.4.43 Piston Rods 28.4.43 Connecting rods 28.4.43
Crank shaft 28.4.43 Thrust shaft 22.4.43 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 HS. 28.4.43 Thrust shaft material O.H. Steel Identification Mark HS. 22.4.43
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 SS "FORT TADOUSSAC" & "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.
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.

Certificate to be sent to

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

The amount of Entry Fee ... \$ 30 - 00
Special ... \$ 267 - 00
Donkey Boiler Fee ... £
Travelling Expenses (if any) \$ 7 - 00
When applied for, May 23 1943
When received, 23/7/43

VCL
Rf

H. J. Saunders
Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 14 SEP 1943

Committee's Minute

Assigned see minute on J.E. Rph

