

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report **Feb. 25th** 19 **43** When handed in at Local Office **Mch. 10th** 19 **43** Port of **MONTRÉAL, QUE.**

No. in Survey held at **MONTRÉAL, QUE.** Date, First Survey **Dec. 5th, 1942** Last Survey **Jan. 27th** 19 **43**
Reg. Book. (Number of Visits **30**)

on the **S. S. "FORT ENTERPRISE"** Tons **Gross 7125.66**
Net 4247.86

Built at **Vancouver, B.C.** By whom built **West Coast Shipbuilders, Ltd.** Yard No. **117.** When built
Engines made at **LACHINE, P. Q.** By whom made **DOMINION ENGINEERING WORKS LTD.** Engine No. **77** When made **1942**

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 **24½" 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. **14½"** Mid. length breadth **---** Thickness parallel to axis **9 & 9½" L.P.**
as fitted **14½"** 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 **screw** shaft fitted with a continuous liner **Yes**
as fitted **---** as fitted **15.25"**

Bronze Liners, thickness in way of bushes as per Rule **.75"** 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 **---** Stroke **---** Can one be overhauled while the other is at work **---**
Bilge Pumps worked from the Main Engines, No. **Two** Diameter **4½"** 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 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 **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 lbs. per square inch**
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 **---**

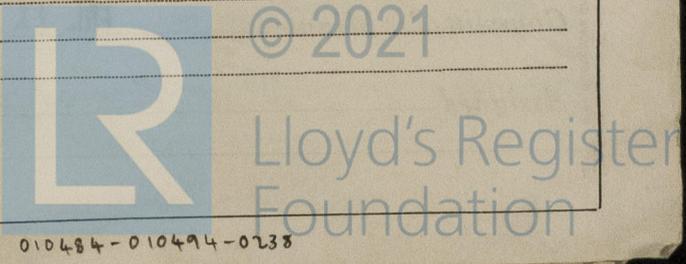
PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
(If not state date of approval)
Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

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 **D. Van Batten** Manufacturer.



5,7,10,11,12,14,15,16,17,18,21,22,23,28,29,30th December, 1942, 4,5,7,8,11,12,13,15,19,

During progress of work in shops - - 21,23,25,27th January, 1943

Dates of Survey while building

During erection on board vessel - - -

Total No. of visits

Dates of Examination of principal parts - Cylinders 5.1.43 23.12.42, 18.1.43 Slides 5.1.43 23.12.42, 18.1.43 Covers 5.1.43 23.12.42, 18.1.43

Pistons 5.1.43, 23.12.42, 18.1.43 Piston Rods 27.1.43 Connecting rods 27.1.43

Crank shaft 27.1.43 Thrust shaft 27.1.43 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 3912 H.S.27.1.43 Thrust shaft material O H Steel Identification Mark LLOYD'S 3712 H.S.27.1.43

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 CHAMBLY"

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 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 : When applied for, Special ... £/ 267.00 : Moh. 25 19 43 Donkey Boiler Fee ... £ : When received, Travelling Expenses (if any) £/ 10.00 : 19

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

Committee's Minute FRI. 11 JUN 1943

Assigned See Ser. L.C. Rpt 5902.

