

RPT. 4 REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

21 DEC 1943

Date of writing Report 18th. Aug. 1943 When handed in at Local Office 3rd. Aug. 1943 Port of Montreal, P.Q.
 No. in Survey held at Montreal, P.Q. Date, First Survey 31st. May Last Survey 27th. July 1943
 Reg. Book. S. S. "FORT SAKISDAC" (Number of Visits 31) Tons 7159.62 Gross 4243.93 Net
 on the
 Built at North Vancouver, B.C. By whom built Burrard Dry Dock Co. Ltd. Yard No. 188 When built
 Engines made at Lachine, P.Q. By whom made Dominion Engineering Works Limited Engine No. 114 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 504 643 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 shrunk Mid. length thickness -- Thickness around eye-hole 7.125
 Intermediate Shafts, diameter as per Rule 13.33" Thrust shaft, diameter at collar 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" as per Rule .565"
 Bronze Liners, thickness in way of bushes as per Rule .75" Thickness between bushes as fitted .68" 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 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
 Pumps 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 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./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

Originally intended for Ocean vessels 220 lb. 230 lb.
now fitted in "Dredger"

The foregoing is a correct description
 DOMINION ENGINEERING WORKS LIMITED
 PER: H. Hermann Manufacturer.

Dates of Survey while building

During progress of work in shops - - } 31st. May. 3, 7, 9, 11, 14, 16, 18, 21, 23, 24, 25, 28, 30 June. 1, 2, 3, 6, 8, 9, 12, 13, 14, 16, 19, 20, 22, 23, 24, 26, 27 July.

During erection on board vessel - - - }

Total No. of visits

Dates of Examination of principal parts — Cylinders 31.5.43, 23.6.43, 20.7.43 Slides 31.5.43, 23.6.43, 20.7.43 Covers 31.5.43, 23.6.43, 20.7.43

Pistons 31.5.43, 23.6.43, 20.7.43 Piston Rods 27.7.43 Connecting rods 27.7.43

Crank shaft 27.7.43 Thrust shaft 20.7.43 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. 7831 27.7.43 Thrust shaft material O.H. Steel Identification Mark HS. 8430 20.7.43

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 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 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 ... \$ 30:00 : When applied for,

Special ... \$ 267:00 : } Sept. 14, 1943

Donkey Boiler Fee ... £ : } 22.10.43

Travelling Expenses (if any) \$ 6:00 : } When received,

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

Committee's Minute FRI. 7 JAN 1944

Assigned see minute on Ver. J.E. Rpt.

Certificate to be sent to

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



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