

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report Oct. 14th 1942 When handed in at Local Office Oct. 14th 1942 Port of Vancouver, B. C.
 No. in Survey held at North Vancouver, B. C. Date, First Survey August 18th 1942 Last Survey October 8th 1942
 Reg. Book. --- on the m Steel Single Screw Steamer "FORT VERMILLION" (Number of Visits 30) Tons {Gross 7133.39
 Net 4243.42
 Built at North Vancouver, B.C. By whom built Burrard Dry Dock Co. Ltd. Yard No. 165 When built 1942
 Engines made at Montreal, P.Q. By whom made Dominion Engineering Wks Engine No. 40 When made 1942
 Boilers made at Vancouver, B. C. By whom made Dominion Bridge Co. Ltd. Boiler No. 246 When made 1942
248
250
 Registered Horse Power 229 Owners Minister of Munitions & Supply of Canada. 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 General Cargo

ENGINES, &c.—Description of Engines Triple Expansion. Superheat to 575°F. Revs. per minute 80
 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" Crank webs Mid. length breadth --- Thickness parallel to axis 9" & 9½" L.P.
as fitted 14½" Mid. length thickness --- Thickness around eye-hole 7½" Pin
 Intermediate Shafts, diameter as per Rule 13.33" Thrust shaft, diameter at collars as per Rule 13.99" 7½" Journal
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 fitted .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
 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 {No. and size Two- 8"x10½"x22" Pumps connected to the {No. and size Four (One) 10"x12"x10" (One) 9"x6"x10" Two Rams
 Pumps {How driven Steam Worthington Simplex Main Bilge Line {How driven Duplex Steam Duplex Steam M.E.
 Ballast Pumps, No. and size (One) 10"x12"x10" (Duplex) Lubricating Oil Pumps, including Spare Pump, No. and size None
 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 1-3" Dia. Port 1-3" Dia. Star in Blr. Rm. 1-3" Dia. Port 1-3" Dia. Star in
Engine Room. 1-2" Dia. in Thrust Recess. 1-2" Dia. in Tunnel well. In Holds, &c. 1-4" Dia. to F.P. 1-3" Dia. P&S to Nos. 1-2-3-4 & 5
 Holds. 1-4" Dia. to A.P.

Main Water Circulating Pump Direct Bilge Suctions, No. and size (One) 9" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size (One) 5" Dia. Star side Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes
 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 Yes
 Are all Sea Connections fitted direct on the skin of the ship Yes. Main Injection Are they fitted with Valves or Cocks Valves
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Overboard Discharges above or below the deep water line Below
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
 What Pipes pass through the bunkers Steel Air Pipes to No. 4 D.B. Tanks How are they protected Steel Straps welded across frames
 What pipes pass through the deep tanks Bilge Suctions. No. 7 D.B. Air Pipes Have they been tested as per Rule Yes
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 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 Yes Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door No worked from ---

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 7140 Sq. Ft.
 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 sq. 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 Approved Plans Main Boilers --- Auxiliary Boilers --- Donkey Boilers ---
 (If not state date of approval)
 Superheaters Approved Plans in U.K. General Pumping Arrangements --- Oil fuel Burning Piping Arrangements ---

SPARE GEAR.

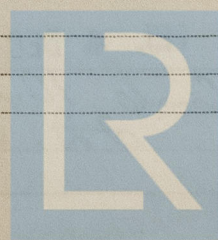
Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied ---

As per list forwarded with Vancouver Report No. 5718 - S.S. "FORT ST. JAMES"

The foregoing is a correct description
 Burrard Dry Dock Company, Limited

Manufacturer.

President



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Lloyd's Register
Foundation

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