

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

18 SEP 1942

Date of writing Report **15th July 1942** When handed in at Local Office **15th July 1942** Port of **Vancouver, B. C.**

No. in Survey held at **Vancouver, B. C.** Date, First Survey **April 26th, 1942** Last Survey **July 7th 1942**

Reg. Book. (Number of Visits **15**)

-- on the **Steel Single Screw Steamer "FORT CHIPEWYAN"** Tons {Gross **7135.91**
Net **4257.91**

Built at **Vancouver, B.C.** By whom built **West Coast Shipbuilders, Ltd.** Yard No. **103** When built **1942**

Engines made at **Toronto** By whom made **John Inglis & Son** Engine No. **76** When made **1942**

Boilers made at **Vancouver, B. C.** By whom made **Vancouver Iron Works, Ltd.** Boiler No. **174** When made **23-4-42**
176 **25-4-42**
178 **30-4-42**

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

ENGINES, &c.—Description of Engines **Triple Expansion** 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"** Mid. length breadth **-** Thickness parallel to axis **9" x 9½" L.P.**
as fitted **14½"** Crank webs **-** shrunk Thickness around eye-hole **7½"** Pin **7½"** Journal

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"**
as fitted **-** as fitted **15.25"** Is the {tube} shaft fitted with a continuous liner { **Yes**

Bronze Liners, thickness in way of bushes as per Rule **.75"** Thickness between bushes as per Rule **.565"**
as fitted **.78125"** 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 **-**

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- Weir Simplex type** 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 Hr. Rm. **1-3" Dia. Port 1-3" Dia. Star**—In Eng. Rm. **1-2" Dia. in**
1-2" Dia. in Tunnel well In Holds, &c. **1-4" Dia. to F.P. 1-3" Dia. P&S to** Thrust Recess

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 **Yes** fitted to steel tubes 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**
Bilge Suctions **No. 7 D.B. Air Pipes** under limber boards. **Yes**

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 **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 in U.K.** Main Boilers Auxiliary Boilers Donkey Boilers

Superheaters 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 Vancr. Report No. 5718 - S.S. "FORT ST. JAMES"

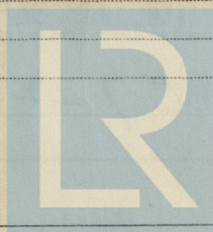
The foregoing is a correct description

WEST COAST SHIPBUILDERS LTD.

W. M. Lane

Manufacturer.

General Manager *W. M. Lane*



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