

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

7 JUN 1943

Date of writing Report **20th Apr., 1943** When handed in at Local Office **20th Apr., 1943** Port of **Vancouver, B. C.**
No. in Survey held at **Vancouver, B. C.** Date, First Survey **3rd March, 1943** Last Survey **20th April, 1943**
Reg. Book. (Number of Visits **24**)
on the **Steel Single Screw Steamer "FORT DEASE LAKE"** Tons {Gross **7125.77**
Net **4247.49**
Built at **Vancouver, B.C.** By whom built **Burrard Dry Dock Co. Ltd.** Yard No. **163** When built **1943**
Engines made at **Montreal, P.Q.** By whom made **Dominion Engineering Wks.** Engine No. **80** When made **1943**
Boilers made at **Vancouver, B.C.** By whom made **Dominion Bridge Co. Ltd.** Boiler No. **399**
401
403 When made **1943**
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 **13.99"** as per Rule **14½"** as fitted **14½"** Crank pin dia. **14-1/4"** Crank webs **shrunk** Mid. length breadth **--** Thickness parallel to axis **9" & 9½" L.P.**
(7½" Pin
(7½" Journal
Intermediate Shafts, diameter **13.33"** as per Rule **13.5"** as fitted **13.5"** Thrust shaft, diameter at collars **14.25"** as per Rule **13.99"** as fitted **14.25"**
Tube Shafts, diameter **--** as per Rule **14.87"** as fitted **15.25"** Is the **shaft** fitted with a continuous liner **Yes**
Screw Shaft, diameter **.75"** as per Rule **.565"** 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 **4½"** Stroke **26"** Can one be overhauled while the other is at work **Yes**
Feed (No. and size **Two (10"x7"x24")** Pumps connected to the Main Bilge Line { 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" type. (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 **bd**
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 Pump Room 1-2½" Dia. in in Engine Rm., 1-2" Dia. in Thrust Bess.
in Holds, &c. 1-4" Dia. to P.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** they fitted with Valves or Cocks **Yes**
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates **fitted to steel tube through D.B. tank.** 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, under Limber Boards **Yes**
What pipes pass through the deep tanks **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) 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 **Approved Plans** Auxiliary Boilers **Approved Plans** Donkey Boilers **Approved Plans**
(If not state date of approval)
Superheaters **Approved Plans** General Pumping Arrangements **Approved Plans** Oil fuel Burning Piping Arrangements **Approved Plans**
in U.K.

SPARE GEAR.

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

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

Manufacturer.

President

4: 5905.

Rpt. 5a.

Date of writ

No. in
Reg. Book.

Engines ma

Boilers ma

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(During progress of
work in shops - -) See Montreal Report No. 5821

Dates
of Survey
while
building

(During erection on
board vessel - -) Mar. 3, 10, 12, 13, 15, 19, 22, 23, 27, 29, 30, 31.
Apr. 1, 2, 5, 9, 10, 13, 14, 15, 16, 17, 19, 20.

Total No. of visits 24

Dates of Examination of principal parts — Cylinders Slides Covers
Pistons Piston Rods Connecting rods
Crank shaft Thrust shaft 5th April, 1943 Intermediate shafts 5th April, 1943
Tube shaft See Montreal Report No. 5821 Screw shaft 3rd March, 1943 Propeller 3rd March, 1943
Stern tube 2nd March, 1943 Engine and boiler seatings 10th March, 1943 Engines holding down bolts 2nd April, 1943
Completion of fitting sea connections 10th March, 1943

Completion of pumping arrangements 9th April, 1943 Boilers fixed 1st April, 1943 Engines tried under steam 13th April, 1943

Main boiler safety valves adjusted 10th April, 1943 Thickness of adjusting washers P41/64" 25/32" P23/64" 3/4" S.Blrs. 5/8" 23/32" 390

Crank shaft material O.H. Steel Lloyd's 3915 H.S. 9-2-43 Thrust shaft material O.H. Steel Lloyd's 3900 H.S. 9-2-43

Intermediate shafts, material O.H. Steel Lloyd's 1776 H.S. 9-2-43 Tube shaft, material O.H. Steel Lloyd's 1776 H.S. 9-2-43

Screw shaft, material O.H. Steel Lloyd's 1776 H.S. 9-2-43 Steam Pipes, material S.D. Steel Test pressure 660 lbs. Date of Test 5th Apr.

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 No 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 ST. JAMES" (Ver. Report No. 5718)

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been constructed under special survey of the Montreal

Surveyors and installed on board under special survey in accordance with the approved plans, New York

letters and otherwise in conformity with the Society's Rules. The materials and workmanship are good

and the tests required by the Rules have been satisfactorily carried out. The whole installation

been examined and tested under full working conditions on sea trials and afterwards part opened out

examined and found satisfactory. The machinery has also been surveyed during construction and

installation on behalf of Wartime Merchant Shipping, Ltd., to ensure that the terms of the specific

have been fully complied with and this work has been satisfactorily carried out.

The machinery of this Vessel is eligible in our opinion to be classed in the Register

Book with Notation of *L.M.C. 4, 43 Screw Shaft C.L. 3 S.E. Blrs. 220 lbs. per sq. inch F.D.

Montreal fees charged in Montreal Report No. 5821

The amount of Entry Fee ... £ : When applied for,
Special (Ver.) ... \$133.00 : 20th Apr. 1943
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) \$ 20.00 : When received, 19

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 11 JUN 1943

Committee's Minute

Assigned

+ L.M.C. 4, 43.

J.B. C.L.



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Foundation