

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report JUNE 14th 1942 When handed in at Local Office JUNE 10th 1942 Port of VANCOUVER B.C.

No. in Survey held at VANCOUVER B.C. Date, First Survey MAY 26th 1942 Last Survey JUNE 4th 1942

Reg. Book. on the STEEL SINGLE SCREW STEAMER "FORT ELLICE" (Number of Vts. 23.)

Built at VANCOUVER B.C. By whom built BURRAD DRY DOCK CO LTD Yard No. 135 When built 1942

Engines made at MONTREAL P.Q. By whom made DOMINION ENGINE WORKS LTD Engine No. 14 When made 1942

Boilers made at VANCOUVER B.C. By whom made DOMINION BRIDGE CO LTD Boiler No. 162 When made 1942

Registered Horse Power 229 Owners H.M. GOVERNMENT, UNITED KINGDOM Port belonging to 145

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 505

ENGINES, &c.—Description of Engines **TRIPLE EXPANSION** Revs. per minute **80**
 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 **14.07** 14.00 Mid. length breadth **-** Thickness parallel to axis **9 9/16**
 as fitted **14 1/2** Crank pin dia. **14 1/4** Crank webs **shrunk** Thickness around eye-hole **6.625**
 Intermediate Shafts, diameter as per Rule **13.2** 13.32 Thrust shaft, diameter at collars as per Rule **12.82** 14.00
 as fitted **13 1/2** as fitted **14.20**
 Tube Shafts, diameter as per Rule **-** Screw Shaft, diameter as per Rule **14.275** 14.86 Is the **screw** shaft fitted with a continuous liner **YES**
 as fitted **-** as fitted **16.25** as fitted **-**
 Bronze Liners, thickness in way of bushes as per Rule **78** Thickness between bushes as per Rule **68** Is the after end of the liner made watertight in the
 as fitted **78/125** as fitted **-** 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 **SALVO**
 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 **NO** 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 **TWO 8 x 10 1/2 x 22** Pumps connected to the {No. and size **FOUR ONE 18 x 18 ONE 9 x 10 TWO RAMS**
 Pumps {How driven **STEAM SUBMERG** Main Bilge Line {How driven **STEAM DUPLEX STEAM DUPLEX M.E.**
 Ballast Pumps, No. and size **ONE 10 x 12 x 10 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. STAR. IN ENGRM. 1-3" DIA. PORT. STAR. IN BILRM. 1-2" DIA. IN TUNNEL BILGES**
 In Pump Room **1-4" DIA. TO E.P. 1-3" DIA. PORT. STAR. TO N.P. 1-2 3/4-4-5 H. HOLE**
 In Holds, &c. **1-4" DIA. TO E.P. 1-2 1/2" DIA. TO TUNNEL WELL**
 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 10 IN.** 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** Are they fitted with Valves or Cocks **VALUES**
 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 2-4-5-6 INCHES** How are they protected **STEEL SHEET WELDED ACROSS FRAMES UNDER LINER BOARDS**
 What pipes pass through the deep tanks **NO. 7 O.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 5) 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
IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes.

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? Yes
 Can the donkey boiler be used for domestic purposes only? Yes

PLANS. Are approved plans forwarded herewith for Shafting APPROVED PLANS N.H.K. Main Boilers..... Auxiliary Boilers..... Donkey Boilers.....
(If not state date of approval)
Superheaters APPROVED PLANS N.H.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 VANDER REPORT. # 5718. 9/5 FORT ST. JAMES.

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

Burrard Dry Dock Company, Limited

Manufacturer.

President

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Lloyd's Register
Foundation

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