

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office - 6 JUN 1945

Date of writing Report **Feb. 9, 1945** When handed in at Local Office **Jan. 10, 1945** Port of **Montreal, Que.**
 No. in Survey held at **Montreal, Que.** Date, First Survey **Dec. 12, 1944** Last Survey **Jan. 5, 1945**
 Reg. Book **Constant attendance** (Number of Visits)
 on the **Single Screw Steamer "GARDEN PARK"** Tons } Gross **7148.51**
 Net **4216.01**
 Built at **Vancouver, B.C.** By whom built **Burrard Dry Dock Co. Ltd.** Yard No. **230** When built
 Engines made at **LACHINE, QUE.** By whom made **CANADIAN ALLIS-CHALMERS LIMITED** Engine No. **392** When made **1944-45**
 Boilers made at By whom made Boiler No. When made
 Registered Horse Power Owners Port belonging to
 Nom. Horse Power as per Rule **628 505** Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 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** **9" & 9 1/2" on L.P.**
 Crank shaft, dia. of journals as per Rule **14.21"** Crank pin dia. **14 1/2"** Crank webs Mid. length breadth - Thickness parallel to axis
 as fitted **14.25"** Mid. length thickness - sbrunk Thickness around eye-bolt **7 1/8" & 7 5/8"**
 Intermediate Shafts, diameter as per Rule **13.53"** Thrust shaft, diameter at collars as per Rule **14.21"**
 as fitted **13.5"** as fitted **14.25"**
 Tube Shafts, diameter as per Rule - Screw Shaft, diameter as per Rule **15.07"** Is the ~~crank~~ shaft fitted with a continuous liner {
 as fitted - as fitted **15.25"** { screw } **Yes**
 Bronze Liners, thickness in way of bushes as per Rule **.76"** Thickness between bushes as per Rule **.57"** Is the after end of the liner made watertight in the
 as fitted **.78125"** as fitted **.68125"** 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 Pumps {No. and size } Pumps connected to the {No. and size }
 {How driven } Main Bilge Line {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) Total Heating Surface of Boilers
 Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters
 No. and Description of Boilers Working Pressure **250 lbs./sq. in. (Spht. 230 lbs./sq. in.)**
220 lbs./sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?
 IS A DONKEY BOILER FITTED? 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

The foregoing is a correct description
 Canadian Allis-Chalmers Limited,
 Manufacturer.



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 Foundation
 CO 5258-005268-0289

From 12th December, 1944 to 5th January, 1945 (Constant attendance)

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits

Dates of Examination of principal parts — Cylinders 21.12.44 15.12.44 19.12.44 Slides 21.12.44 15.12.44 19.12.44 Covers 21.12.44 15.12.44 19.12.44

Pistons 21.12.44 19.12.44 15.12.44 Piston Rods 4.1.45 Connecting rods 28.12.44

Crank shaft 4.1.45 Thrust shaft 4.1.45 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 Lloyd's 6936

Crank shaft material O.H. Steel Identification Mark HGLP.4.1.45 Thrust shaft material O.H. Steel Identification Mark HGLP.4.1.45

Intermediate shafts, material O.H. Steel Identification Marks Tube shaft, material - - Identification Mark -

Screw shaft, material O.H. Steel Identification Mark Steam Pipes, material Test pressure Date of Test

Is an installation fitted for burning oil fuel 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

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

This ENGINE has been constructed under Special Survey and in conformity with the Society's Rules and Regulations and Secretary's letters.

The scantlings are in accordance with, or equivalent to, those shown on the Approved Plans.

The materials and workmanship are good and the H.P., M.P. and L.P. Cylinders were hydrostatically tested to 330, 110 and 30 lbs. pressure per square inch respectively and found sound and tight at those pressures.

This 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 trials.

Certificate to be sent to

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

The amount of Entry Fee ... \$ 30⁰⁰ :) When applied for, 7th Feb. 1945

Special ... \$ 267⁰⁰ :) When received, 29.3.45

Donkey Boiler Fee ... \$ 50 :)

Travelling Expenses (if any) \$ 19 :)

Weyl P. ...
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute ... **FRI. 15 JUN 1945**

Assigned ... *see minute on Ver 2/3 Rpt.*

