

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 31 JUL 1945

Date of writing Report April 25th, 1945 When handed in at Local Office April 20th, 1945 Port of Montreal, Que.
No. in Survey held at Three Rivers, P.Q. Date, First Survey Sept. 15th, 1944 Last Survey April 14th, 1945
Reg. Book Constant attendance
on the S. S. "LORNE PARK" Tons Gross
Built at Picton, N. S., By whom built Foundation Maritime Ltd., Yard No. 24 When built 1945
Engines made at Three Rivers, P.Q. By whom made Canada Iron Foundries Ltd. Engine No. 2041 When made 1945.
Boilers made at Lachine, P. Q., By whom made Dominion Bridge Co. Ltd., Boiler No. B1509 S4. When made 1945.
Registered Horse Power 269 Owners Canadian Government Port belonging to Montreal.
Nom. Horse Power as per Rule 268.81 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
Trade for which Vessel is intended OCEAN GOING

ENGINES, &c.—Description of Engines Triple Expansion 3 Cylinders— Revs. per minute 72
Dia. of Cylinders 20" 31" 55" Length of Stroke 39" No. of Cylinders 3 No. of Cranks 3
Crank shaft, dia. of journals as per Rule 10.99" Crank pin dia. 11.25" Crank webs Mid. length breadth 16.25" Thickness parallel to axis 6.875"
as fitted 11.25" Mid. length thickness 6.875" Thickness around eye-hole 4.75"
Intermediate Shafts, diameter as per Rule 10.47" Thrust shaft, diameter at collars as per Rule 10.99"
as fitted 10.75" as fitted 11.25"
Tube Shafts, diameter as per Rule --- Screw Shaft, diameter as per Rule 11.78" Is the shaft fitted with a continuous liner Yes
as fitted --- as fitted 12.25" Is the after end of the liner made watertight in the
Bronze Liners, thickness in way of bushes as per Rule .657" Thickness between bushes as per Rule .493"
as fitted .6875" as fitted .53125"
propeller boss Yes
Propeller, dia. 15.75' Pitch 14.0' No. of Blades 4 Material Bronze whether Moveable No Total Developed Surface sq. ft.
Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 26" Can one be overhauled while the other is at work Yes
Bilge Pumps worked from the Main Engines, No. 2 Diameter 4.25" Stroke 26" Can one be overhauled while the other is at work Yes
Feed Pumps (No. and size) Pumps connected to the Main Bilge Line (No. and size)
Pumps (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 S) Total Heating Surface of Boilers 3854 Square Feet
Which Boilers are fitted with Forced Draft Port & Stbd. Which Boilers are fitted with Superheaters Port & Stbd.
No. and Description of Boilers 2 - Multitubular Scotch Boilers Working Pressure 200 lbs./square inch
IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
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 Approved London Main Boilers Approved New York 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 YES
State the principal additional spare gear supplied

The foregoing is a correct description
Canada Iron Foundries Limited
Per:-

Manufacturer.



Constant attendance from September 15th, 1944 to April 14th, 1945

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 5.3.45 26.3.45 14.4.45 Slides 27.1.45 24.2.45 Covers 22.1.45 27.2.45

Pistons 17.2.45 28.2.45 14.4.45 Piston Rods 20.2.45 6.3.45 14.4.45 Connecting rods 14.2.45 21.3.45 14.4.45

Crank shaft 23.2.45 15.3.45 28.3.45 Thrust shaft 11.10.44 28.3.45 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 Crank Webs, Cast Steel Thickness of adjusting washers LLOYD'S 3338

Crank shaft material Pins & Journals Identification Mark 28.3.45 T.C. Thrust shaft material O.H. Steel Identification Mark 11.10.44

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

Screw shaft, material 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 S.S. "ROCKWOOD PARK"

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

This ENGINE together with Thrust Shaft, Thrust Block and Condenser have been constructed under Special Survey in accordance with the Rules and Approved Plans, and the workmanship is, in my opinion, good. The Forgings and Castings have been tested and finally examined by the undersigned and found satisfactory.

This ENGINE has been shipped to FOUNDATION MARITIME LIMITED, Pictou, Nova Scotia, 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 the Vessel, subject to satisfactory installation and sea trials.

The amount of Entry Fee ... \$ 20:00 : When applied for, 21 May 45

Special ... \$ 200:00 : When received,

Donkey Boiler Fee ... \$:00 : 19

Travelling Expenses (if any) \$ 22:00 :

Committee's Minute FRI, 3 AUG 1945

Assigned See F.E. machy. rpt.

Thomas Park
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation