

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 31 JUL 1945

Date of writing Report July 5th 19 45 When handed in at Local Office July 11th, 19 45 Port of HALIFAX, N. S.

No. in Reg. Book. ✓ Survey held at PICTOU, N. S. Date, First Survey March 23, 1945 Last Survey July 6th 19 45
 on the S.S. "LORNE PARK" (Number of Visits 38) Tons Gross 2930.
Net 1622.

Built at PICTOU, N. S. By whom built FOUNDATION MARITIME LIMITED Yard No. 24 When built 1945

Engines made at THREE RIVERS, P. Q. By whom made CANADA FOUNDRIES LTD. Engine No. 2041 When made 1945

Boilers made at LACHINE, P. Q. By whom made DOMINION BRIDGE CO. LTD. Boiler No. 1509 P4 SA When made 1945

Registered Horse Power ✓ Owners CANADIAN GOVERNMENT Port belonging to MONTREAL

Nom. Horse Power as per Rule 269 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 THREE No. of Cranks THREE

Crank shaft, dia. of journals as per Rule 10.99" as fitted 11.25" 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" as fitted 10.75" Thrust shaft, diameter at collars as per Rule 10.99" as fitted 11.25"

Tube Shafts, diameter as per Rule ✓ as fitted ✓ Screw Shaft, diameter as per Rule 11.78" as fitted 12.25" Is the tube shaft fitted with a continuous liner YES
 as fitted ✓ as fitted ✓

Bronze Liners, thickness in way of bushes as per Rule .657" as fitted .6875" Thickness between bushes as per Rule .493" as fitted .53125" 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 ✓
 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 ✓
 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 ✓
 If so, state type ✓ Length of Bearing in Stern Bush next to and supporting propeller 51.375"
 Propeller, dia. 15.75 ft. 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 Two 6" Simplex Pumps connected to the Main Engine pumps and ballast pump. How driven Indep't Steam Main Bilge Line How driven Main Engine Indep't Steam.

Ballast Pumps, No. and size One Duplex 12" x 10" 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 Five 3" dia. & two bilge suction from dry tanks, under boilers.
 In Pump Room ✓ In Holds, &c. Nos. 1 & 2 - 3" dia. Nos. 3 & 4 - 2 1/2" dia.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One - 6" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One - 6", One - 4" 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 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 NONE How are they protected ✓

What pipes pass through the deep tanks ✓ 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 Perm. closed

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 3854 sq.ft.

Which Boilers are fitted with Forced Draft Port & Stbd. Which Boilers are fitted with Superheaters Port & Stbd.

No. and Description of Boilers Two multitubular Scotch type. Working Pressure 200 lbs.

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 App. London Main Boilers App. New York Auxiliary Boilers Donkey Boilers ✓
 (If not state date of approval)

Superheaters App. New York General Pumping Arrangements Drawings sent for "LORNE PARK" Oil fuel Burning Piping Arrangements ✓

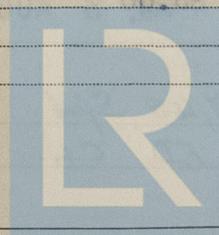
SPARE GEAR.

Has the spare gear required by the Rules been supplied YES

State the principal additional spare gear supplied One set packing wearing segments for all piston rods & valve spindles.
25 Condenser tubes & 50 ferrules.
10 Plain boiler tubes, one furnace door & 2 ash pit doors & spare gear for forced draught fronts.

The foregoing is a correct description
 FOUNDATION MARITIME LIMITED
 R. S. Shaw
 Manager

Manufacturer.



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 Foundation

Dates of Survey while building:

- During progress of work in shops - - 1945 - Mar. 23, Apr. 16, 20, 26, 28 - May 3, 9, 10, 11, 14, 21, 22, 29 - June 2, 4, 5, 7, 8, 9, 11, 12
- During erection on board vessel - - 13, 14, 15, 16, 18, 19, 20, 22, 23, 26, 27, 28, 29 - July 3, 4, 5, 6

 Total No. of visits 38 During erection on board.

Dates of Examination of principal parts — Cylinders Slides Covers
 Pistons Piston Rods Connecting rods
 Crank shaft Thrust shaft Intermediate shafts 15-12-44
 Tube shaft ✓ Screw shaft 15-12-44 Propeller 6-12-44
 Stern tube 26-4-45 Engine and boiler seatings 11-5-45 Engines holding down bolts 5-6-45
 Completion of fitting sea connections 28-4-45
 Completion of pumping arrangements 27-6-45 Boilers fixed 22-5-45 Engines tried under steam 29-6-45
 Main boiler safety valves adjusted 28-6-45 Thickness of adjusting washers P. Blr. P. 5/8" S. 7/16" S. Blr. P. 13/32" S. 17/32"
 Crank shaft material Webs Cast Steel Pins & Journals Identification Mark 3335 Thrust shaft material O.H. Steel Identification Mark 5462
 Intermediate shafts, material O.H. Steel Identification Marks 9568, 9486, 9487 Tube shaft, material Identification Mark
 Screw shaft, material O.H. Steel Identification Mark 9460 Steam Pipes, material Steel Test pressure 600 lbs/sq.in. Date of Test 2-6-45
 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 "AVONDALE PARK" ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The boilers and machinery of this vessel have been installed on board under special survey and in accordance with the Approved Plans, Rule Requirements and Specifications and Special Instructions received from Wartime Shipbuilding Limited.
 The steam & feed pipes have been tested to Rule Requirements and found sound and tight. The boilers examined under steam and the safety valves adjusted to 200 lbs. per sq.in. in main valves and 205 lbs. per sq.in. superheater safety valves.
 The materials and workmanship are of good quality and the main and auxiliary machinery, pumping arrangements, etc. have all been tried under full working conditions and found satisfactory.
 In my opinion this machinery is suitable for the purpose intended and eligible for the notation + L.M.C.7,45 and T.S.(c.1) 7,45.

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

The amount of Entry Fee ... £20.00 : Mtl. a/c : When applied for,
 Engines Special ... £200.00 : " : July 11 1945
 Boilers ... £200.00 : " :
 Donkey Boiler Etc ... £44.00 : " : When received,
 Expenses ... £ : :
 Travelling Expenses (if any) £ : :
 Installation \$250.00
 Expenses 35.00

For H. Nain
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned + LMC 7,45 Spt.
 F.D. C.L.

