

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.



Received at London Office 7 MAY 1946

Date of writing Report Nov. 20th, 1945 When handed in at Local Office Nov. 19th, 1945 Port of Montreal, Que.
 No. in Survey held at Montreal, Que. Date, First Survey Aug. 13th, 1945 Last Survey Nov. 19th, 1945
 Reg. Book on the S.S. "OTTAWA MAYCOVE" **Daily attendance**
 Built at Port Arthur, Ont. By whom built Port Arthur Shipbuilding Co. Limited Yard No. 98 When built 1945
 Engines made at Montreal, Que. By whom made Canadian Vickers Limited Engine No. 35100-5 When made 1945
 Boilers made at _____ By whom made _____ Boiler No. _____ When made _____
 Registered Horse Power _____ Owners Wartime Shipbuilding Limited Port belonging to _____
 Nom. Horse Power as per Rule _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____
 Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines Triple Expansion
 Dia. of Cylinders 9" x 16" x 26" Length of Stroke 18" No. of Cylinders 3 Revs. per minute 230
 Crank shaft, dia. of journals as per Rule 5.02" Crank pin dia. 5 1/2" Crank webs Mid. length breadth - Thickness parallel to axis 4"
 Intermediate Shafts, diameter as per Rule 4.784" Thrust shaft, diameter at collars as per Rule 5.02" Thickness around eye-hole 2-7/16"
 Tube Shafts, diameter as per Rule _____ as fitted _____ Is the tube shaft fitted with a continuous liner {
 Screw Shaft, diameter as per Rule _____ as fitted _____
 Bronze Liners, thickness in way of bushes as per Rule _____ Thickness between bushes as per Rule _____
 Propeller boss _____ 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 _____
 Propeller, dia _____ Pitch _____ No. of Blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ sq. ft.
 Feed Pumps worked from the Main Engines, No. One Diameter 2 1/2" Stroke 8 1/2" Can one be overhauled while the other is at work _____
 Bilge Pumps worked from the Main Engines, No. One Diameter 2 1/2" Stroke 8 1/2" Can one be overhauled while the other is at work _____
 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 _____ 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, _____
 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 bunks _____ 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 200 lbs./sq.in. ✓
A REPORT ON MAIN BOILERS NOW FORWARDED? _____
A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____
 Are approved plans forwarded herewith for Shafting New York Apr. 2nd Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval) & May 28th, 1945 _____
 Superheaters _____ General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

Is the spare gear required by the Rules been supplied Yes ✓ **SPARE GEAR.**
 Is the principal additional spare gear supplied _____

The foregoing is a correct description
 Canadian Vickers Limited,
 Montreal, Que.
 Manufacturer.



012827-012835-0142

August 13th, 1945 to November 19th, 1945.
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits Daily attendance

Dates of Examination of principal parts — Cylinders 17/9, 19/9, 13/10, Slide 17/9, 19/9, 13/10, Cover 17/9, 19/9, 13/10, 1945. 1945. 1945.
 Pistons 24/10/45 Piston Rods 24/10/45 Connecting rods 24/10/45
 Crank shaft 3/10/45 Thrust shaft 15/10/45 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

Crank shaft material O.H. Steel Identification Mark Lloyd's 4205 TSM. 3/10/45 Thrust shaft material O.H. Steel Identification Mark Lloyd's LAD. 15/10
 Intermediate shafts, material 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 "OTTAWA MAYHILL" (Montreal R.P.)

General Remarks (State quality of workmanship, opinions as to class, &c.) This ENGINE has been constructed under Special Survey in conformity with the Society's Rules and Regulations and the Secretary's letters. The scantlings and arrangements are in accordance with, or equivalent to, those shown on the Approved Plans, copies of which are in the London Office. The materials have been tested by the Surveyors to this Society and the workmanship is good. Forging reports enclosed herewith. This ENGINE together with Thrust Shaft, Thrust Block and Condenser have been forwarded to PORT ARTHUR SHIPBUILDING COMPANY, LIMITED, PORT ARTHUR, ONT., for installation in a Vessel intended to be classed with the British Corporation Register of Shipping and Aircraft.

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

Certificate to be sent to...

The amount of Entry Fee ... \$:) When applied for,
 Special ... \$ 200⁰⁰ :) 11th Apr. 1946
 Donkey Boiler Fee ... \$:) When received,
 Travelling Expenses (if any) \$ 10 :) 19...

J.S. Morrison
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 21 MAR 1947

Assigned not for classing committee/ See F.E. mch. rpt.

