

RPT. 4 REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 7th, April 1943 When handed in at Local Office 28th, March, 1943 Port of Montreal, P.Q.

No. in Survey held at Montreal, P.Q. Date, First Survey 8th, Jan. 1943 Last Survey 22nd, March 1943 Reg. Book. (Number of Visits 30) Tons Gross 7133.61 Net 4243.79

on the S. S. "FORT CUMBERLAND"

Built at North Vancouver, B.C. by whom built Burrard Dry Dock Co. Ltd. Yard No. 172 When built Canadian Allis-Chalmers

Engines made at Lachine, P.Q. By whom made Limited. Engine No. 237 When made 1943

Boilers made at By whom made Boiler No. When made

Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Rule 504 508 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

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

Crank shaft, dia. of journals as per Rule 13.99" Crank pin dia. 14 1/2" Crank webs Mid. length breadth --- Thickness parallel to axis 9" & 9 1/2" L.P. 7.125" as fitted 14 1/2" Mid. length thickness --- Thickness around eye-hole 7.625"

Intermediate Shafts, diameter as per Rule 13.33" Thrust shaft, diameter at collars as per Rule 13.99" as fitted 13.5" as fitted 14.25"

Tube Shafts, diameter as per Rule --- Screw Shaft, diameter as per Rule 14.87" Is the screw shaft fitted with a continuous liner Yes as fitted --- as fitted 15.25"

Bronze Liners, thickness in way of bushes as per Rule .75" Thickness between bushes as per Rule .565" as fitted .78125" as fitted .68" 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 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 connected to the Main Bilge Line No. and size 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 7140 Square Feet

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./ Square Inch

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 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 PER

Manufacturer.



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8, 9, 11, 15, 18, 20, 22, 25, 27, 28, January. 1, 2, 3, 6, 8, 10, 11, 15, 18, 22, 24, 26, February.

Dates of Survey while building  
 During progress of work in shops - - 2, 4, 5, 9, 11, 15, 19, 22, March 1943.  
 During erection on board vessel - - -  
 Total No. of visits

Dates of Examination of principal parts — Cylinders 11.3.43 9.3.43, 5.3.43 Slides 11.3.43 9.3.43, 5.3.43 Covers 11.3.43 9.3.43, 5.3.43  
 Pistons 11.3.43 9.3.43, 5.3.43. Piston Rods 22.3.43 Connecting rods 16.3.43  
 Crank shaft 22.3.43 Thrust shaft 22.3.43 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 1694  
 Crank shaft material O.H. Steel Identification Mark HS. 22.3.43 Thrust shaft material O.H. Steel Identification Mark HS. 22.3.43  
 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 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 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 SS "FORT TADOUSSAC" & "FORT CHAMBLY"  
 General Remarks (State quality of workmanship, opinions as to class, &c.)

This ENGINE has been constructed under Special Survey in accordance with the Rules and Approved Plans. The materials and workmanship are good. The cylinders were tested hydrostatically to 330, 110 and 30 lbs. pressure per square inch respectively, and found tight under those pressures.  
 This ENGINE has been fitted with Cast Steel Connecting Rods.  
 The 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 sea trials.

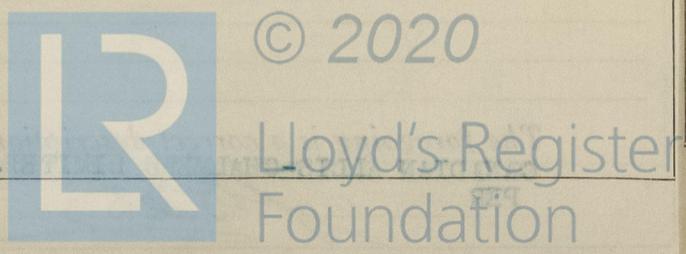
Certificate to be sent to

The amount of Entry Fee ... \$ 30.00 :  
 Special ... \$ 267.00 :  
 Donkey Boiler Fee ... £ :  
 Travelling Expenses (if any) \$ 10.00 :  
 When applied for, 2/5-5-43  
 When received, 19

H.G. Saunders per A.L.H.  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 7 SEP 1943

Assigned all minute on Dec. 25. 43. R.H.



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