

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office **4 MAR 1943**

Date of writing Report **4th Jan., 1943** When handed in at Local Office **4th Jan., 1943** Port of **Vancouver, B. C.**  
 No. in Survey held at **Victoria, B. C.** Date, First Survey **18th Sept., 1942** Last Survey **12th Dec., 1942**  
 Reg. Book. --- on the **Steel Single Screw Steamer "FORT TREMBLANT"** (Number of Visits **29**)  
 Gross Tons **7128.16**  
 Net Tons **4252.62**  
 Built at **Victoria, B.C.** By whom built **Victoria Machinery Depot Co. Ltd.** Yard No. **24** When built **1942**  
 Engines made at **Toronto, Ont.** By whom made **John Inglis Co. Ltd.** Engine No. **83** When made **1942**  
 Boilers made at **Vancouver, B. C.** By whom made **Vancouver Iron Works, Ltd.** Boiler No. **(332) (333) (335)** When made **1942**  
 Registered Horse Power **229** Owners **Minister of Munitions & Supply of Canada.** Port belonging to ---  
 Nom. Horse Power as per Rule **504** Is Refrigerating Machinery fitted for cargo purposes **No** Is Electric Light fitted **Yes**  
 Use for which Vessel is intended **General Cargo**

**GINES, &c.**—Description of Engines **Triple Expansion. Superheat to 575° F.** Revs. per minute **80**  
 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 **shrunk** Thickness parallel to axis **9 1/2" L.P. 7 1/2" Pin**  
 Intermediate Shafts, diameter **as per Rule 14 1/4"** as fitted **13.33"** Mid. length thickness **---** Thickness around eye-hole **7 1/2" Journal**  
 Thrust shaft, diameter at collars **as per Rule 13.99"** as fitted **14.25"**  
 Main Shafts, diameter **as per Rule ---** as fitted **---** Is the **hub** shaft fitted with a continuous liner **Yes**  
 Screw Shaft, diameter **as per Rule 14.87"** as fitted **15.25"** Is the **screw** shaft fitted with a continuous liner **---**  
 Liners, thickness in way of bushes **as per Rule .75"** as fitted **.78125** Thickness between bushes **as per Rule .565"** as fitted **.68"** Is the after end of the liner made watertight in the **Solid**  
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner **Yes**  
 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 the 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 **61"**  
 Length of Bearing in Stern Bush next to and supporting propeller **117 sq. ft.**  
 Propeller, dia. **18'-6"** Pitch **16'-0"** No. of Blades **4** Material **Bronze** whether Moveable **Solid** Total Developed Surface **---**  
 Main Engines, No. **None** Diameter **---** Stroke **---** Can one be overhauled while the other is at work **---**  
 Main Engines, No. **Two** Diameter **4 1/2"** Stroke **26"** Can one be overhauled while the other is at work **Yes**  
 Pumps connected to the Main Bilge Line { No. and size **Four (One) 10"x12"x10" (One) 9"x6"x10" Two Rams**  
 How driven **Steam Worthington Simplex** Main Bilge Line { How driven **Duplex Steam Duplex Steam M.E.**  
 Lubricating Oil Pumps, including Spare Pump, No. and size **None**  
 Two independent means arranged for circulating water through the Oil Cooler **---** Suctions, connected to both Main Bilge Pumps and Auxiliary **---**  
 Pumps:—In Engine and Boiler Room **1-3" Dia. Port 1-3" Dia. Star <sup>bd</sup> in Blr. Rm. 1-3" Dia. Port 1-3" Dia. Star <sup>bd</sup>**  
 In Eng. Rm. **1-2" Dia. in Thrust Recess.** In Holds, &c. **1-4" Dia. to P.P. 1-3" Dia. P&S to Nos. 1-2-3-4 & 5**  
 In Pump Room **1-2 1/2" Dia. in tunnel well.** Holds. **1-4" Dia. to A.P.**

Water Circulating Pump Direct Bilge Suctions, No. and size **One - 9"** Independent Power Pump Direct Suctions to the Engine Room Bilges, **---**  
 and size **One 5" Dia. Star <sup>bd</sup> side.** 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**  
 All Sea Connections fitted direct on the skin of the ship **Yes. Main injection** they fitted with Valves or Cocks **Valves and Cocks.**  
 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**  
 How are they protected **Steel Air Pipes to No. 4 D.B. tanks** under Limber Boards. **Yes**  
 Have they been tested as per Rule **Yes**  
 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 **---**

**MAIN BOILERS, &c.**—(Letter for record **S**) Total Heating Surface of Boilers **7140 sq. ft.**  
 Which Boilers are fitted with Forced Draft **All Three** Which Boilers are fitted with Superheaters **All Three**  
 and Description of Boilers **3 Single ended Multitubular** Working Pressure **220 lbs. per sq. inch**  
**A REPORT ON MAIN BOILERS NOW FORWARDED? Yes**  
**A DONKEY BOILER FITTED? No** If so, is a report now forwarded? **---**  
 Is the donkey boiler be used for domestic purposes only **---**  
**ANS.** Are approved plans forwarded herewith for Shafting **Approved Plans in U.K.** Main Boilers **---** Auxiliary Boilers **---** Donkey Boilers **---**  
 (If not state date of approval)  
 General Pumping Arrangements **Approved Plans in U.K.** Oil fuel Burning Piping Arrangements **---**

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

As per List forwarded with Vancouver Report No. 5718 - S.S. "FORT ST. JAMES"

The foregoing is a correct description  
Victoria Machinery Depot Co., Ltd.

Manufacturer.



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Lloyd's Register  
Foundation  
004564-004572-0120

Dates of Survey while building } During progress of work in shops - - } See Toronto Report No. 878  
 } During erection on board vessel - - - }  
 1942. - Sept. 18, 21, 30 Oct. 1, 2, 3, 5, 6, 8, 10, 11, 17, 20, 29, 30, 31  
 Nov. 3, 11, 14, 16, 17, 23, 24, 25, Dec. 1, 7, 9, 10, 12.  
 Total No. of visits 29

Dates of Examination of principal parts - Cylinders Slides Covers  
 Pistons Piston Rods Connecting rods  
 Crank shaft Thrust shaft 3rd November, 1942 Intermediate shafts 20th October, 1942  
 Tube shaft Screw shaft 1st October, 1942 Propeller 6th October, 1942  
 Stern tube 30th Sept., 1942 Engine and boiler seating (20th Oct., 1942 & 6th Nov., 1942) Engines holding down bolts 6th November, 1942

See Toronto Report No. 878

Completion of fitting sea connections 10th October, 1942  
 Completion of pumping arrangements 7th Dec., 1942 Boilers fixed 29th Oct., 1942 Engines tried under steam (23rd Nov., 1942 & 10th Dec., 1942)  
 Main boiler safety valves adjusted 9th Dec., 1942 Thickness of adjusting washers P.Hr.S. 530" C.Hr. S. 453" S.Hr. S. 458"  
 Crank shaft material O.H. Steel Lloyd's 5156 JMK 23-1-42 JB 20-4-42 Lloyd's 1070 JKH 2-1-42  
 Identification Mark 3048 JMK 4-12-41 JB 20-4-42  
 Intermediate shafts, material O.H. Steel Lloyd's 6998 AS 2-6-42 5578 17-7-42 PWW  
 Identification Mark 8227 AS 27-7-42 8247 AS 29-7-42  
 Screw shaft, material O.H. Steel Lloyd's 8193 8260 AS 29-7-42 5435 28-5-42 PWW  
 Identification Mark AS 13-8-42 Steam Pipes, material S.D. Steel Test pressure 660 lbs. Date of Test 20-10-42  
 per sq. inch. 18-11-42

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 S.S. "FORT HUDSON'S HOPE" (Ver. Report No. 5831)  
 General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this Vessel has been constructed under Special Survey of the Toronto Surveyors, and installed on board under Special Survey in accordance with the approved plans, New York letters and otherwise in conformity with the Society's Rules. The materials and workmanship are good and the tests required by the Rules have been satisfactorily carried out. The whole installation has been examined and tested under full working conditions on sea trials and afterward part opened out, examined and found satisfactory. The machinery has also been surveyed during construction and installation on behalf of Wartime Merchant Shipping, Ltd., to ensure that the terms of the specifications have been fully complied with and this work has been satisfactorily carried out.  
 The machinery of this Vessel is eligible in our opinion to be classed in the Register Book with Notation of \*L.M.C. 12, 42 Screw Shaft C.L. 3 S.E. Blrs. 220 lbs. per sq. inch F.D.

Approved Plans in U.K. Yes  
 Approved Plans in U.K. Yes

Toronto fees charged in Toronto Report No. 878.

The amount of Entry Fee	£133.00	When applied for, 14 <sup>th</sup> Dec. 1942
Special	£ :	
Donkey Boiler Fee	£ :	
Travelling Expenses (if any)	£60.00	
		When received, 19

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

Committee's Minute FRI. 5 MAR 1943  
 Assigned *Edm. 12.42*  
*22, C.L.*

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

