

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

19 FEB 1943

Date of writing Report **4th Dec., 1942** When handed in at Local Office **4th Dec., 1942** Port of **Vancouver, B. C.**

No. in Survey held at **Vancouver, B. C.** Date, First Survey **7th Oct., 1942** Last Survey **30th Nov., 1942**
Reg. Book.

on the **Steel Single Screw Steamer "FORT FRANKLIN"** (Number of Visits **15**) Tons {Gross: **7134.62**
Net: **4244.36**

Built at **Vancouver, B. C.** By whom built **West Coast Shipbuilders, Ltd.** Yard No. **110** When built **1942**

Engines made at **Toronto** By whom made **John Inglis & Son** Engine No. **89** When made **1942**

Boilers made at **Vancouver, B. C.** By whom made **Vancouver Iron Works, Ltd.** Boiler No. **(277)**
(279) When made **1942**
(281)

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**

Trade for which Vessel is intended **General Cargo**

ENGINES, &c.—Description of Engines **Triple Expansion. Superheat to 575° F.** Revs. per minute **80**

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 **shrunk** Thickness parallel to axis **9" & 9 1/2" L.P.**
as fitted **14 1/2"** Mid. length thickness **shrunk** Thickness around eye-hole **7 1/8" Pin**
Intermediate Shafts, diameter as per Rule **13.33"** Thrust shaft, diameter at collars as per Rule **13.99"** **7 5/8" Journal**
as fitted **13.5"** as fitted **14.25"**

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

Bronze Liners, thickness in way of bushes as per Rule **.75"** Thickness between bushes as per Rule **.565"** Is the after end of the liner made watertight in the
as fitted **.78125"** as fitted **.68"** 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 (No. and size **(Two) 10"x7"x24"** Pumps connected to the { No. and size **Four (One) 10"x12"x10" (One) 9"x6"x10" Two Rams**
Pumps (How driven **Steam Worthington Simplex** Main Bilge Line { How driven **Duplex Steam Duplex Steam M.E.**
Ballast Pumps, No. and size **(One) 10"x12"x10" (Duplex)** Lubricating Oil Pumps, including Spare Pump, No. and size **None**

*Are two independent means arranged for circulating water through the Oil Cooler **---** Suctions, connected to both Main Bilge Pumps and Auxiliary **bd**
Bilge Pumps;—In Engine and Boiler Room **1-3" Dia. Port 1-3" Dia. Star in Blr. Rm. 1-3" Dia. Port 1-3" Dia. Star **bd****
In Pump Room **1-2" Dia. in in Engine Room. 1-2" Dia. in Thrust. recess. 1-3" Dia. P&S to Nos. 1-2-3-4 & 5**
In Pump Room **1-2" Dia. in tunnel well.** In Holds, &c. **1-4" Dia. to P.P.** holds. **1-4" Dia. to A.P.**

Main Water Circulating Pump Direct Bilge Suctions, No. and size **(One) 9"** Independent Power Pump Direct Suctions to the Engine Room Bilges,
No. and size **(One) 5" Dia. Star **bd** 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**

Are all Sea Connections fitted direct on the skin of the ship **Yes. Main injection** Are they fitted with Valves or Cocks **Valves**
fitted to steel tube through D.B. tank.

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 **Steel Air Pipes to No. 4 D.B. tanks** Are they protected **Steel Straps welded across frames**
Bilge Suctions No. 7 D.B. Air under Limber Boards. **Yes**

What pipes pass through the deep tanks **Pipes. Air** 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 **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**

No. and Description of Boilers **3 Single ended multitubular** Working Pressure **220 lbs. per sq. 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 **Approved Plans** Main Boilers **---** Auxiliary Boilers **---** Donkey Boilers **---**
(If not state date of approval) **in U.K.**

Superheaters **Approved Plans** General Pumping Arrangements **---** Oil fuel Burning Piping Arrangements **---**
in U.K.

SPARE GEAR.

Has the spare gear required by the Rules been supplied **Yes**

State 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
WEST COAST SHIPBUILDERS LTD.

W.S.M. Laven
General Manager

Manufacturer.



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Lloyd's Register
Foundation

W275-0050

During progress of work in shops - - See Toronto Report No. 882.
 1942.
 During erection on board vessel - - Oct.- 7,11,16,29. Nov.- 5,6,7,11,13,17,20,25,26,27,30.
 Total No. of visits 15

Dates of Examination of principal parts - Cylinders Slides Covers
 Pistons Piston Rods Connecting rods
 Crank shaft Thrust shaft Nov. 17th, 1942. Intermediate shafts Nov. 5th, 1942.
 Tube shaft See Toronto Rpt. No. 882 Screw shaft Oct. 11th, 1942 Propeller Oct. 11th, 1942
 Stern tube Oct. 7th, 1942 Engine and boiler seatings Nov. 2nd, 1942 Engines holding down bolts Nov. 2nd, 1942
 Completion of fitting sea connections Nov. 6th, 1942
 Completion of pumping arrangements Nov. 20th, 1942 Boilers fixed Nov. 2nd, 1942 Engines tried under steam Nov. 20th, 1942

Main boiler safety valves adjusted Nov. 17th, 1942 Thickness of adjusting washers Port 33/64 33/64 Star 39/64 19/32 Centre 5/8 1/2
 Crank shaft material O.H. Steel Lloyd's 7819 Thrust shaft material O.H. Steel Lloyd's 7868 J.K.H. 10-10-41
 Identification Mark JKH 10-10-41 Lloyd's 8324 AS 5-8-42 8331 AS 6-8-42 8318 AS 4-8-42
 Intermediate shafts, material O.H. Steel Identification Mark 8290 AS 30-7-42 8215 AS 23-7-42 8299 AS 1-8-42
 Screw shaft, material O.H. Steel Identification Mark Lloyd's 8337 AS 6-8-42 Steam Pipes, material S.D. Steel Test pressure 600 lbs. Date of Test Nov. 1942

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 CHILCOTIN" (Ver. Rpt. No. 5764)
 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. 11,42 Screw Shaft C.L. 3 S.E. Blrs. 220 lbs. per sq. inch F.D.

Toronto Fees charged in Toronto Rpt. No. 882
 The amount of Entry Fee ... £ : : When applied for,
 Special ... £133.00 : : 1st Dec., 1942
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ 20.00 : :
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Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 23 FEB 1943
 Assigned

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

