

RECEIVED

STEEL STEAMER

MOTORSHIP

Received at London Office.

19 JAN 1944

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IN D.O.

Date of completion of report 22nd January, 1943

Port of VANCOUVER, B. C.

No. 5867

Date of re-typing report 15th September, 1943.

Survey held at Vancouver & North Vancouver

Date First Survey 28th September/42

Last Survey 22nd January,

1943.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Steel Single Screw Steamer, "FORT JEMSEG"

State Type (Full Steaming, Complete Superstructure with or without Tonnage Openings)

C.S.S. with T.O. closed

State Type of Erections

TONNAGE under Tonnage Deck

6704.21

CLASS 100 A1 with

State if with freeboard

Yes

Built at Vancouver & North Vancouver, B.C.

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

Gross Tonnage

7134.01

Register Tonnage

4244.00

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L 416.00

Breadth (greatest moulded)

B 56.88

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 37.33

1st Longitudinal Number (L x D)

15529

2nd Numeral L x (B + D)

39191

Framing Depth "d," at middle of length. See Sec. 3 (1d)

25.08

Proportions—Depth to Length—Uppermost continuous deck to top of keel

11.14

Do. Long Bridge to top of keel

26.86

Draught Moulded

Launched 17th Dec. 1942 Yard No. 153

Builders Burrard Dry Dock Co. Limited

Owners Minister of Munitions & Supply of Canada.

Managers The Hain Steamship Co. Ltd.

(Where necessary to be entered in Reg. Book.)

Residence London

Port of Registry

If surveyed while building, afloat, or in dry dock

Building and afloat.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	30		Bracket Floors, Frame	-	
" " from 3/4 length amidships to Collision bulkhead	27		" " Reversed Frame	-	
" " in peaks	24		" " Vertical Struts	-	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 x .54	
Frame Amidships, Angle E or F CH	12x4x4x.47		" " top Angles	3 1/2 x .44	
" " Extends up to	2nd Deck		" " bottom Angles	4 x 4.50	
Reversed Frame Amidships, Angle	-		Side Girders, (No. each side and thickness	One 6 3/2 .44	
" " Extends up to	-		Margin Plate depth (excl. of flange) and thickness	40 1/2 x .54	
Depth of Framing Girder	12		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	Welded to Tank Side	
Frames in Uppermost Continuous 'tween Decks, Angle E or F CH	6 3 1/2 .50		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	Brackets	
" " Second 'tween Decks, Angle, [or [-		" " Gussets, spacing and scantling abaft 1/4 len. from stem	10 1/2 x .40 (FL 2")	
No. 1 Hold (Frs. 135-162) CH	15x4x4x.625		" " Frame 144	Continuous	
No. 2 Hold (Frs. 106-135) CH	12x4x4x.625		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	17 x .40 (FL 2")	
" " from 1/2 len. for'd. to 15% len. from Stem	-		" " FR 144 to F.P. Bnd.	Continuous	
" " in Peaks, Angle E or F BA	8 3 1/2 .34		Tank Side Brackets, height above base line at toe of Frame and thickness	104 1/2 x .45	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 At 6 1/2 Dia.		INNER BOTTOM PLATING.		
State if Frame Joggled	No		Breadth and thickness of Middle Line Strake	84 x .48	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes		Thickness of remainder in Holds	.44	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	Yes	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships	8 3 1/2 .46	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [or [-	
Middle Line Keelson, on Floors, Angles, [or [" " Spacing	Every frame 9x3 1/2 x .38	
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, [or [12x4x4x.47	
" " Foundation Plate on Floors			" " Spacing	Every frame	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [or [
" " Spacing			" " Spacing		
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, [or [
" " thickness of Intercoastal Plate			" " Spacing		
" " Angles			Poop Deck, Angle, [or [
" " Spacing			" " Spacing		
DOUBLE BOTTOM.			Bridge Deck, Angle, [or [
Solid Floors, thickness and spacing	.36" at 30"		" " Spacing		
" " Are Frame and Reversed Frame joggled?	Yes		Forecastle Deck, Angle, [or [
" " Spacing			" " Spacing		
Bracket Floors, breadth and thickness at middle line	-				
" " breadth and thickness at margin plate	-				

PILLARS AND DECKS.			
	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.
PILLARS, No. of Rows One- in tween decks only.			
in 'tween Decks, Size and Spacing	6 5/8 on alt. frs.		
in Holds			
Centre Line Bulkhead in Holds	12x3x3x.45 on alt. frs.		
Stiffeners and Spacing			
Plating, thickness of	.30		
STRINGERS AND DECKS.			
Uppermost Continuous Deck.			
Stringer Plate, breadth and thickness	61 x .64		
in way of Bridge			
E.W. to Shell Sheerstrake			
Thickness of Plating abreast Deck openings	.55		
Thickness of Plating abreast Deck openings	.40		
Thickness of Plating within line of openings			
If Sheathed, material and thickness			
Second Deck.			
Stringer Plate, breadth and thickness	50" x .43"		

SHELL PLATING.			
SCANTLINGS.			
STRAKES.	AS IN VESSEL.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.
	AMIDSHIPS.		State if joggled? Yes
	Breadth.	Thickness.	Thickness.
	Inches.	Inches.	Inches.
FLAT PLATE KEEL	52	.78	.68
" DBLG. (if any)			
BOTTOM PLATING, No. of Strakes Four		.61	.56
BILGE PLATING, No. of Strakes One		.61	.56
SIDE PLATING, No. of Strakes Three		.61	.56
UPPER DECK, Sheer-strake in Way	84	.70	.50
UPPER DECK, Sheer-strake in Bridge			
STRAKE BELOW Sheer-strake in Way	78	.61	.50
STRAKE BELOW Sheer-strake in Bridge			
POOP SIDE PLATING			
BRIDGE SIDE PLATING			
FORECASTLE SIDE PLATING			

WATERTIGHT BULKHEADS.						FORGINGS and CASTINGS.			
For record: 7 BH (Cell 6 W.H., 4 1/2" and 4 1/2" G. divisional W.T. B.H. in 'Tween decks) Total No. of W.T. BULKHEADS in Vessel— Extending to Upper Deck (Sec. 3 c) One (1) (Coll. on Frs. 162) Deck next below Seven (7) (Frs. Nos. 12, 40, 58, 66, 93, 106, & 135) In Tween Decks - Six divisional W.T. Bkds. (Frs. 19, 40, 66, 93, 106 and 135) As per Rule Seven (7)						Casting or Forging. Ins. Scantlings. Ins. Maker's Name. Any Departure from Approved Plans to be Noted.			
STIFFENERS.						KEEL, Upper Flat Plate 1 - STEM (Lower-Rolled Bar 10" x 2" Algoma Steel STERN FRAME { Propeller Post C.S. Appd. - Ver. Eng. Wks. { Redder - - - - - Speed of Vessel..... Not exceeding 12 Knots RUDDER—Type Semi-balanced streamlined " A x D 282 - - - " Diam. of head - 9 1/2 Dia. - - " Mainpiece at top pintle - 12 Dia. - - heel 9 1/2 Dia. " how constructed Built, Riv'd & E.W. " double or single plate Double " coupling, vertical or horizontal Horizontal			
MIDSHIP BULKHEAD, Upper tween decks .26 6x3 1/2 x 38 30 - - " Second - - - - - " Third - - - - - " Holds 26/1 3/4 x 3 1/2 x 38 30 - - COLLISION " (in Hold) Fr. 162 33/50 x 3 x 36 24 3 Stgrs. 6' 0" AFTER PEAK " (Fr. 12) 30/35 x 3 x 38 24 2 " 6'-6"									
STEEL.						Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open hearth. The Steel Co. of Canada Ltd., Manitoba Rolling Mills Co. Ltd., Carnegie-Illinois Steel Corpn. The Phoenix Iron Co., Dominion Steel & Coal Corpn. Ltd., Algoma Steel Products Co. Ltd., Bethlehem Steel Co. Has the Steel been tested as required by the Rules? Yes			

EQUIPMENT No. 39800				LETTER a		ANCHORS.	
Number of Certificate	Anchor	Weight, Ex. Stock	Test, Per Certificate	Specification	Description of Anchor	Makers	Where and when tested and Superintendent
F5016	1st Bower	7822	68.0	C.S. "BALDT"	Vulcan Iron Works Ltd.	Winnipeg June/Nov., 1942	J.F. Hind
F5017	2nd "	7653	68.0	Type Stockless			
F4176	3rd "	15475	136.0	C.S. "BALDT"	Vulcan Iron Works Ltd.	Winnipeg Sept/Oct. 1942	J.F. Hind
	Stream	2280	234	Type Stockless			

CHAIN CABLES.				HAWSERS AND WARPS.			
Number of Certificate	Length and size supplied	Test per Certificate	Weight of Chain Cable	Length and size supplied	Test per Certificate	Weight of Chain Cable	Length and size supplied
Length	Diam.	Break- ing	Supplied	Length	Diam.	Break- ing	Supplied
Fathoms	In.	Tons	Lbs.	Fathoms	In.	Tons	Lbs.
1567	225	2 1/2	72742	600	225	2 1/2	72742
1579	225	2 1/2	1061	600	225	2 1/2	1061

Steering Gear, Type (Power or hand) **Steam with telemotor control** Alternative Means of Steering to after warping winch.

Steering Chains (Size and Test) **Windlass Steam - 11" x 13"** Boats **20' x 6.75' x 2.60'**

Ceiling in Holds, thickness and material **2 1/2" thk, B.C. Fir** Cargo Battens, thickness, material and spacing **1-7/8" to 2" B.C. Fir**

Cargo Hatchways. (Upper Deck) **Strong Steel Plates and Angles** Thickness of Hatches **3" thk. B. C. Fir**

Size of Hatchways No. 1 (Fwd.) **33'9"x20'** No. 2 **35'x20'** No. 3 **15'x20'** No. 4 **35'x20'** No. 5 **35'x20'** No. 6 **8' x20'**

Number of Shifting Beams **Nos. 1, 2, 4 and 5 -- each 5.** No. 3 - 2. X Bkr. - 1.

Builder's Signature **Burrard Dry Dock Company, Limited**

President **Centurion**

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel **No**

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo **No** The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

This ship has been constructed in accordance with the approved plans, instructions and printed Rules of the Society. The materials and workmanship are of good quality.

The double bottom, peaks, deep and fresh water tanks, decks, bulkheads, tunnels, watertight doors, steering gear, and windlass have been tested and found satisfactory. The freeboards assigned by the Committee have been marked on the ship's sides and verified. The equipment of anchors and chain cables is in accordance with the War Emergency Reduction of Equipment requirements. Regarding the anchors all the requirements of Sections 12 and 13 of the Rules for Quality and Testing of Materials have been carried out except the Statutory Tests of Section 12 for which tensile tests on the materials of each head and shank were substituted, (28 tons per sq. inch minimum, with the usual extension). It is recommended that a Suitable Notation be entered on the First Entry Certificate because of these departures from the Rules. The ship has also been surveyed during construction on behalf of the Minister of Munitions & Supply of Canada in accordance with the Hull Specification requirements which have been carried out to our satisfaction.

The amount of Entry Fee **\$ 50.00** Fees applied for **22nd Jan. 1943**

Special Survey Fee **\$ 2145.00** Received by me **19**

Travelling Expense, if any **\$ 50.00**

Owners' Repres. **\$ 1000.00**

State whether the Vessel has been built under Special Survey **Yes**

Signature **H. B. B. and J. Sinclair** Surveyor to Lloyd's Register of Shipping.

Committee's Minute **TUES. 1 FEB 1944**

Character assigned **+100 AI with freeboard**

W272-0105(212)

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

This ship is the 31st of this type to be built by Burrard Dry Dock Co. Ltd., and is a sistership of their Yard No. 130 - S.S. "FORT ST. JAMES" (Vancouver Report No. 5718).

The approved plans have been retained for dealing with sisterships building and to be built.

Blue print of plan of Midship Section is forwarded herewith.

Interim Certificate issued - copy attached.

Immersed main ship's side openings Certificate issued - copy attached.

A copy of each of the following certificates attached hereto.

Certificate No. F-4641 for cast steel stern frame

Certificate No. F-5502 for rudder.

Certificate No. F-5361 for steam steering engine, quadrant and tiller.

Certificate No. F-3735 for windlass.

Certificate Nos. F-1906, F-1909, F-4608, F-5320, F-1907, F-1908, F-5516, F-5515, F-1880, F-1881, & F-3506 for winches.

Certificate Nos. F-5016, F-5017, F-4176 for anchors.

There are six divisional bulkheads in the tween decks, all watertight having the tonnage openings closed with rivetted plates except on bulkhead No.93 (between tween deck coal bunker and No. 3 tween decks) which has steel hinging W.T. doors.

PARTICULARS OF ELECTRIC WELDING (if employed) All connections to double bottom tanks' margin plates, watertight floors and gusset plates; 2nd deck stringer closing plates all welded; plate butts of shell plating, tank top (part), tunnel, 2nd and upper decks, centre girder and hatch side girders; hold bhd's. and tunnels' sides to tank top plating; other items of minor importance: Electrodes, complying with section 4, paras. 1 - 9 of the Rules have been employed for manual welding and the Rules for the Application of Electric Arc Welding to Ship Construction have been complied with where applicable. Also Upper Deck stringer plates E.W. to sheerstrake, and thrust recess, tween dk. bhd's and deckhouses E.W. construction.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. Cruiser stern; direction finder; Echo sounder; Wireless.

Particulars of Drop Test of Cast Steel Anchors, viz:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	5702 lbs.	J.F.H.	F5016	5-11-42
2nd "	5685 lbs.	J.F.H.	F5017	5-11-42
Stream	2040 lbs.	J.F.H.	F4176	29-9-42.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop --- ft., R.Q.D. --- ft., Bridge --- ft., Forecastle --- ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. --- Signal Letters --- Extreme Breadth over Belting **No belting** Over-all Length **441.5'**

No. and Material of Decks **Two- (2) steel**

Parts of Bottom of Vessel coated with cement or approved composition. **Nos. 5 (B.R.) and 6 (E.R.) D.B. tanks and 3 fr. spaces fwd. and aft of them have 2" thk. cement on bottom shell. Remainder of D.B. tanks and bilges fore and aft cement washed throughout.**

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft, Nos. 7 and 8	S.W. 135.0	306.	Fore peak tank,	S.W. 22.	145.
Double bottom, under Engines and Boilers,	---	---	After peak tank,	S.W. 24.	160.
Double bottom, if under Engines only, No. 6	S.W. 25.0	106.	Deep tank, at Port	S.W. 20.	390.
Double bottom, if under Boilers only, No. 5 (dry)	20.0	89.	Deep tank, forward Star'd.	S.W. 20.	375.
Double bottom, forward, Nos. 1, 2, 3, & 4.	S.W. 188.25	648.	Other tanks, if fitted, ---		
Total length (if continuous) and Capacity	S.W. 368.25	1149.	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. **53**

Date **14 - 10 - 41**

Dates of Surveys held while building

1942 - Sept. 28, Oct. 13, 20, 29, 30, 31, Nov. 2, 3, 5, 17, 18, 25, 27, 28, 30
Dec. 1, 3, 5, 7, 8, 9, 10, 11, 12, 14, 15, 16, 28.
1943 Jan. 5, 12, 13, 14, 19, 20, 21, 22.

Total No. of Visits **36**