

STEEL STEAMER or MOTORSHIP.

Received at London Office 10 APR 1943

State if Report has been sent on the Freeboard of the Vessel Yes

State if Report is sent on the Machinery of the Vessel Yes

Date of completion of report 26th February, 1943

Port of Vancouver, B. C.

No. 5882

Survey held at North Vancouver, B. C. Date First Survey 15th Nov., 1942

Last Survey 22nd February, 1943

On the (State if Machinery, Hull, and if Single, Twin or Triple Screw) Steel Single Screw Steamer "FORT BUCKINGHAM"

State Type (Full, Semi, Complete Superstructure with or without Tonnage Openings) C.S.S. with T.O. closed

State Type of Erections

TONNAGE under Tonnage Deck... 6699.22

CLASS 100 A1 with Freeboard corresponding to a Summer Mld. Dft. of 26' 10".

F.E.E.T.

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

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) 1416.00

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

Depth to 2nd Deck - 28.58

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 Do. Long Bridge to top of keel 11.14

Draught Moulded 26.86

Built at North Vancouver, B. C.

Launched 13th Jan., 1943 Yard No. 169

Builders Burrard Dry Dock Co. Ltd.

Owners Minister of Munitions & Supply of Canada.

Managers Josephine Constantine Steamship Line, Ltd.

Residence Middlesbrough-on-Tees

Port of Registry

If surveyed while building, afloat, or in dry dock

Building and afloat.

REGISTERED DIMENSIONS.

FEET.

Length 424.6'

Breadth 57.2'

Depth 34.9'

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 $\frac{1}{2}$ length amidships to Collision bulkhead	27		" " Reversed Frame	-	
" " in peaks	24		" " Vertical Struts	-	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 $\frac{1}{2}$ x .54	
Frame Amidships, Angle, [or]	12x4x4x.47		" " top Angles	3 $\frac{1}{2}$ 3 $\frac{1}{2}$.44	
" " Extends up to	2nd Deck		" " bottom Angles	4 4 .50	
Reversed Frame Amidships, Angle	-		Side Girders, (No. each side and thickness	One 6 3 $\frac{1}{2}$.44	
" " Extends up to	-		Margin Plate depth (excl. of flange) and thickness	40 $\frac{1}{2}$ x .54	
Depth of Framing Girder	12		" " Vertical Angle to Tank side	Welded to Tank side	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6 3 $\frac{1}{2}$.50		" " Bracket abaft $\frac{1}{2}$ len. from stem	Continuous	
" " Second 'tween Decks, Angle, [or]	-		" " Vertical Angle to Tank side	Continuous	
" " No. 1 Hold (Frs. 135-162)	15x4x4x.625		" " Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area	10 $\frac{1}{2}$ x .40 (FL 2")	
" " No. 2 Hold (Frs. 106-135)	12x4x4x.625		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	17" x .40 (FL 2")	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	8 3 $\frac{1}{2}$.34	see plan	" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to Panting Area	104 $\frac{1}{2}$ x .45	
" " in Peaks, Angle or [8 3 $\frac{1}{2}$.34		Tank Side Brackets, height above base line at toe of Frame and thickness	-	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	$\frac{7}{8}$ At 6 $\frac{1}{2}$ 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 in Wells, Angle, [or]	8 3 $\frac{1}{2}$.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	
" " 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]	-	
Side Keelsons, No. each side	-		Spacing	-	
" " thickness of Intercoastal Plate	-		Fourth Deck, amidships, Angle, [or]	-	
" " Angles	-		Spacing	-	
DOUBLE BOTTOM.			Poop Deck, Angle, [or]	-	
Solid Floors, thickness and spacing	36" At 30"		Spacing	-	
" " Are Frame and Reversed Frame joggled?	Yes		Bridge Deck, Angle, [or]	-	
Bracket Floors, breadth and thickness at middle line	-		Spacing	-	
" " breadth and thickness at margin plate	-		Forecastle Deck, Angle, [or]	-	
	-		Spacing	-	

PILLARS AND DECKS.

	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows. One- in tween decks only.				
" in 'tween Decks, Size and Spacing.....	6	6	5	
" " " " "	-	-	-	
" in Holds " "	-	-	-	
" " " " "	-	-	-	
Centre Line Bulkhead. in Holds				
Stiffeners and Spacing.....	12x3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x45			
Plating, thickness of30			
STRINGERS AND DECKS.				
Uppermost Continuous Deck.				
Stringer Plate, breadth and thickness in Wells	61	x	.64	
" " " " in way of Bridge	-	-	-	
" E.W. to Sheerstrake				
" Angle in Wells				
Thickness of Plating abreast Deck openings } in way of Wells55			
Thickness of Plating abreast Deck openings } in way of Bridge	-	-	-	
Thickness of Plating within line of openings...	.40			
If Sheathed, material and thickness	-	-	-	
Second Deck.				
Stringer Plate, breadth and thickness in Wells	50"	x	.43"	
Stringer Plate, breadth and thickness in way of Bridge	-	-	-	
Thickness of Plating abreast Deck openings } in way of Wells35			
Thickness of Plating abreast Deck openings } in way of Bridge	-	-	-	
Thickness of Plating within line of openings...	.34			
If Sheathed, material and thickness				
Third Deck.				
Stringer Plate, breadth and thickness.....				
If Plated, state thickness.....				
Fourth Deck.				
Stringer Plate, breadth and thickness.....				
If Plated, state thickness				
Poop Deck.				
Stringer Plate, breadth and thickness				
Plating, Sheathing, material and thickness ...				
Bridge Deck.				
Stringer Plate, breadth and thickness.....				
Plating, Sheathing, material and thickness ...				
Forecastle Deck.				
Stringer Plate, breadth and thickness.....				
Plating, Sheathing, material and thickness ...				

SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	No	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	52	.78	.68	.68			Double	7/8	3.3"		Butts Welded			
" DBLG. (if any)	-	-	-	-			-	-	-		-	-	-	
BOTTOM PLATING, No. of Strakes Four	-	.61	.56	.52			-	-	-		-	-	-	
BILGE PLATING, No. of Strakes One	-	.61	.56	.49			Double	7/8	3.3"		Butts Welded			
SIDE PLATING, No. of Strakes Three	-	.61	.56	.48			-	-	-		-	-	-	
UPPER DECK, Sheer- strake in Wells.....	84	.70	.50	.50			-	-	-		-	-	-	
UPPER DECK, Sheer- strake in Bridge ...	-	-	-	-			-	-	-		-	-	-	
STRAKE BELOW Sheer- strake in Wells.....	78	.61	.50	.48			Double	7/8	3.3"		Butts Welded			
STRAKE BELOW Sheer- strake in Bridge ...														
POOP SIDE PLATING														
BRIDGE SIDE PLATING ...														
FOREC'TLE SIDE PLATING														

WATERTIGHT BULKHEADS.

FOR RECORD: 784 (Coll to Wtdk, 66 2nd dk) 6 divisional W.T. Bds in Tween dks
Total No. of W.T. BULKHEADS in Vessel— *See page 4 of this Report* **One (1) (Coll. on Fr. 162)**
Extending to Upper Deck (Sec. 3 c) **6 (Frs. Nos. 12, 40, 58, 66,**
" Deck next below **Seven (7) 93, 106 and 135)**
In Tween Decks - **Six divisional W.T. Bds. (Frs. 19,**
As per Rule. **Seven (7) 40, 66, 93, 106 and 135)**

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
		Ins.	Ins.	Ins.		
MIDSHIP BULKHEAD	(Fr. 93) Upper tween decks	.26	6x3½x.38	30	-	-
"	" Second "	-	-	-	-	-
"	" Third "	-	-	-	-	-
"	" Holds	26/39	12x3½x3½	30	-	-
COLLISION	" (in Hold) (Fr. 162) 33/50	7x3x.36	24	3 Stgrs.	6'-0"	
AFTER PEAK	" (Fr. 12) 30/35	7x3x.38	24	2 "	6'-6"	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		Flat Plate -		
STEEL		M.S. Fashion Plate		
		10"x2"	Algoma Steel	
		Products Co. Ltd.		
STERN FRAME	Propeller Post	C.S. Appd.-Vcr. Eng. Wks.		
	Rudder			
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			

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., Algoma Steel Products Co. Ltd., Bethlehem Steel Co.
 Has the Steel been tested as required by the Rules? Yes

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 thirty-fourth of this type to be built by Burrard Dry Dock Co. Ltd., and is a sistership to 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-5307 for cast steel stern frame.

Certificate No. F-5782 for rudder.

Certificate No. F-5611 for steam steering engine, quadrant and tiller.

Certificate No. F-5541 for windlass.

Certificate Nos. F-1281, F-1282, F-4816, F-4815, F-1240, F-1283, F-5269, F-5270, F-1241, F-1280 & F-3622 for winches.

Certificate Nos. F-5048, F-5047 & F-5049 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. 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. Upper Deck stringer plate E.W. to sheer strake. Also casings, tween deck bhd., centre line bhd. and thrust recess of 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	5647 lbs.	J.F.H.	F-5048	24-11-42
	2nd "	5648 lbs.	J.F.H.	F-5047	24-11-42
	Stream	2054 lbs.	J.F.H.	F-5049	24-11-42

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' (Circ. 1611) (Circ. 1703)

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. 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, aft, Port	S.W. 20.	390.
Double bottom, if under Boilers only, No. 5 (dry)	S.W. 20.0	89.	Deep tank, forward, Starboard	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. 60

Date 22-4-42

Dates of Surveys held while building

1942.- Nov. 15, 17, 18, 19, 20.

Dec. 18, 21, 22, 23, 24, 28, 29, 30.

1943.- Jan. 2, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15,

Feb. 4, 6, 9, 13, 15, 16, 17, 18, 19, 22.

Total No. of Visits 34