

STEEL STEAMER or MOTORSHIP.

Received at London Office 21 FEB 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 **14th December, 1942** Port of **Vancouver, B. C.** No. **5847**Survey held at **Vancouver and North Vancouver, B. C.** Date First Survey **5th Sept., 1942** Last Survey **7th December, 1942**On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **Steel Single Screw Steamer "FORT YALE"**State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **C.S.S. with T.O. closed.**

State Type of Erections

TONNAGE under Tonnage Deck... **6704.40**

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

Total

Gross Tonnage **7133.91**Register Tonnage **4244.22**

REGISTERED DIMENSIONS. FEET.

Length **424.6**Breadth **57.2**Depth **34.9**CLASS ***100 A1 with** State if with freeboard **Yes**
Freeboard corresponding to a Summer Mld. Dft. of **26'-10"**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**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 **11.14**

Do. Long Bridge to top of keel

Draught Moulded **26.86'**Built at **Vancouver and North Vancouver, BC**Launched **31st Oct., 1942** and No. **151**Builders **Burrard Dry Dock Co. Ltd.**Owners **Minister of Munitions & Supply of Canada.**Managers **Charlton, McAllum & Co. Ltd.,**
(Where necessary to be entered in Reg. Book.)Residence **Newcastle-on-Tyne**

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 $\frac{3}{8}$ length amidships to Collision bulkhead.....	27		" " Reversed Frame	-	
" " in peaks	24		" " Vertical Struts	-	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43½ x .54	
Frame Amidships, Angle, [or]	12x4x4x.47		" " top Angles	3½ 3½ .44	
" " Extends up to.....	2nd Deck.		" " bottom Angles	4 4 .50	
Reversed Frame Amidships, Angle.....	-		Side Girders, (No. each side and thickness.....)	One	
" " Extends up to.....	-		Margin Plate depth (excl. of flange) and thickness	40½ x .54	
Depth of Framing Girder.....	12		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	Welded to Tank side Brackets	
Frames in Uppermost Continuous 'tween Decks, Angle [or]	6 3½ .50		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	10½ x .40" (FL 2")	
" " Second 'tween Decks, Angle, [or]	-		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	Continuous	
No. 1 Hold (Frs. 135-162) [15x4x4x.625]			" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	17" x .40" (FL 2")	
" " No. 2 Hold (Frs. 106-135) [12x4x4x.625]			Tank Side Brackets, height above base line at toe of Frame and thickness	104½ x .45	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	-				
" " in Peaks, Angle or [or]	8 3½ .34		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	¾ At 6" Dias.		Breadth and thickness of Middle Line Strake.....	84 x .48	
State if Frame Joggled	No		Thickness of remainder in Holds44	
Are the scantlings and arrangements in the Panting Area 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	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle [or]	8 3½ .46"	
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, [or]	-	
Height of Brackets at side above base line at toe of frame			Spacing	Every Frame	
Middle Line Keelson, on Floors, Angles, [or]			Second Deck, amidships, Angle, [or]	12x4x4x.47	
" " Through Plate or Intercoastal Plate.....			Spacing	Every Frame	
" " Foundation Plate on Floors			Third Deck, amidships, Angle, [or]		
" " Flat Plate Keel Angles			Spacing		
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, [or]		
" " thickness of Intercoastal Plate.....			Spacing		
" " Angles			Poop Deck, Angle, [or]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing36" At 30"		Bridge Deck, Angle, [or]		
" " Are Frame and Reversed Frame joggled?	Yes		Spacing		
Bracket Floors, breadth and thickness at middle line	-		Forecastle Deck, Angle, [or]		
" " breadth and thickness at margin plate	-		Spacing		

PILLARS AND DECKS.				PILLARS AND DECKS.			
INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows... One- in tween decks only.				Stringer Plate, breadth and thickness in way of Bridge			
" in tween Decks, Size and Spacing... { 6 6 3				Thickness of Plating abreast Deck openings .35			
" on alt. frs.				Thickness of Plating abreast Deck openings in way of Bridge			
" in Holds				Thickness of Plating within line of openings... .34			
" " " " "				If Sheathed, material and thickness.....			
Centre Line Bulkhead in Holds				Third Deck.			
Stiffeners and Spacing..... { 12x3x3x45				Stringer Plate, breadth and thickness.....			
Plating, thickness of..... .30				If Plated, state thickness.....			
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness.....			
Stringer Plate, breadth and thickness in Walls 61 x .64				If plated, state thickness.....			
" in way of Bridge				Poop Deck.			
E.W. to Shell Sheer Strake				Stringer Plate, breadth and thickness.....			
Thickness of Plating abreast Deck openings } .55				Plating, Sheathing, material and thickness.....			
Thickness of Plating abreast Deck openings in way of Bridge } .40				Bridge Deck.			
Thickness of Plating within line of openings..				Stringer Plate, breadth and thickness.....			
If Sheathed, material and thickness				Plating, Sheathing, material and thickness.....			
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Walls 50" x .43"				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 jogged?.....	Yes	No. of Rows of Rivets	Rivets.		STRAIPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	Rivets.		Diam.	Spacing, cr. to cr.		
	Inches.	Inches.	Inches.	Inches.			Diam. Inches.	Spacing. Inches.		Diam. Inches.	Spacing. cr. to cr. 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	}	Double	7/8	3.3	Butts Welded			
BILGE PLATING, No. of Strakes	One	.61	.56	.49								
SIDE PLATING, No. of Strakes	Three	.61	.56	.48								
UPPER DECK, Sheer-strake in Well	84	.70	.50	.50								
UPPER DECK, Sheer-strake in Bridge	-	-	-	-								
STRAKE BELOW Sheer-strake in Well	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.				FORGINGS and CASTINGS.			
Total No. of W.T. BULKHEADS in Vessel				Casting or Forging.			
Extending to Upper Deck (Sec. 3 c) One (1) (Coll. on Fr. 162)				Ins.			
Deck next below Seven (7) 106 and 135				M.S. Fashion Plate			
In Tween Decks Six divisional W.T. Blds. (Fr. 19, 40, 66, 93, 106 & 135)				C.S. Appd. - Ver. Eng. Wks.			
As per Rule Seven (7)				Stern Frame			
STIFFENERS.				Speed of Vessel			
VERTICAL.		HORIZONTAL.		Not exceeding 12 Knots			
Plating Thickness.	Spacing.	Plating Thickness.	Spacing.	Rudder-Type			
Ins.	Ins.	Ins.	Ins.	Semi-Balanced Streamlined			
MIDSHIP BULKHEAD Upper tween decks				A x D			
" " Second				282			
" " Third				Diam. of head			
" " Holds				9 1/2 Dia.			
COLLISION (in Hold) (Fr. 162) 33/50 7x3x36				Mainpiece at top pintle			
AFTER PEAK (Fr. 12) 30/35 7x3x38				12 Dia.			
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)				heel			
The Steel Co. of Canada Ltd., Manitoba Rolling Mills Co. Ltd., Carnegie-Illinois Steel Corp., The Phoenix Iron Co., Algoma Steel Products Co. Ltd., Inland Steel Co., & Bethlehem Steel Co.				how constructed			
Has the Steel been tested as required by the Rules? Yes.				Built, Riv. & E.W.			

EQUIPMENT No. 39800				LETTER a			
ANCHORS.				ANCHORS.			
Number of Certificate.	Weight, Ex. Stock.	Weight of Stock.	Test, per Certificate.	Weight, Ex. Stock.	Weight of Stock.	Test, per Certificate.	Weight, Ex. Stock.
F4156	1st Bower	44 25 lbs.	68.0	1st Bower	44 25 lbs.	68.0	68.0
F4155	2nd "	46 95 lbs.	68.0	2nd "	46 95 lbs.	68.0	68.0
F4158	3rd "	46 95 lbs.	68.0	3rd "	46 95 lbs.	68.0	68.0
Collective Weight				Collective Weight			
Stream				Stream			

CHAIN CABLES.				CHAIN CABLES.			
Number of Certificate.	Length and size supplied.	Test per Certificate.	Weight of Chain Cable.	Number of Certificate.	Length and size supplied.	Test per Certificate.	Weight of Chain Cable.
1548	225 2 1/2	213600 lbs.	213600 lbs.	1548	225 2 1/2	213600 lbs.	213600 lbs.
Chain				Chain			
Stream				Stream			

HAWERS and WARPS.				HAWERS and WARPS.			
Number of Certificate.	Length and size supplied.	Test per Certificate.	Weight of Chain Cable.	Number of Certificate.	Length and size supplied.	Test per Certificate.	Weight of Chain Cable.
1548	225 2 1/2	213600 lbs.	213600 lbs.	1548	225 2 1/2	213600 lbs.	213600 lbs.
Chain				Chain			
Stream				Stream			

STEERING GEAR, Type (Power or hand).				STEERING GEAR, Type (Power or hand).			
Steam with telemotor control				Steam with telemotor control			
Steering Chains (Size and Test)				Steering Chains (Size and Test)			
Ceiling in Holds, thickness and material				Ceiling in Holds, thickness and material			
Cargo Hatchways—(Upper Deck)				Cargo Hatchways—(Upper Deck)			
Size of Hatchways No. 1 (Fwd.)				Size of Hatchways No. 1 (Fwd.)			
Number of Shifting Beams				Number of Shifting Beams			

GENERAL DECLARATION.				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.				It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel.			
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo.				(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo.			
This ship has been constructed in accordance with the approved plans, instructions and printed Rules of the Society.				This ship has been constructed in accordance with the approved plans, instructions and printed Rules of the Society.			

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 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 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.				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).				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.				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 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.			

Fees applied for.				Fees applied for.			
The amount of Entry Fee				The amount of Entry Fee			
Special Survey Fee				Special Survey Fee			
Travelling Expense, if any				Travelling Expense, if any			
Owners' Rep.				Owners' Rep.			
State whether the Vessel has been built under Special Survey				State whether the Vessel has been built under Special Survey			
Certificates sent to				Certificates sent to			
Committee's Minute				Committee's Minute			
Character assigned				Character assigned			
With freeboard				With freeboard			
Noted by S.R.L.				Noted by S.R.L.			
Made 1943				Made 1943			

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 twenty-sixth 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.

A copy of each of the following Certificates attached hereto.

Certificate No. F-4603 for cast steel stern frame.

Certificate No. F-4925 for rudder.

Certificate No. F-4669 for steam steering engine, quadrant and tiller.

Certificate No. F-4671 for windlass.

Certificate No. F-1666, F-1663, F-4935, F-4934, F-1718, F-1716, F-4699, F-4916, F-1664, F-1665 & F-3714 for Winches.

Certificate Nos. F-4156, F-4155 & F-4158 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 plates bolted - bolts spaced 5-3/4" centres between rivets in stiffeners.

See letter 18.3.43

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 sheer strake.

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	5585 lbs.	J.F.H.	F-4156	8-9-42
	2nd "	5700 lbs.	J.F.H.	F4155	8-9-42
	Stream	2050 lbs.	J.F.H.	F-4158	15-9-42

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' (Circ. 1611) (Circ. 1703)
No. and Material of Decks — Two- (2) steel.
Parts of Bottom of Vessel coated with cement or approved composition. No. 5 (B.R.) and 6 (E.R.) D.B. tanks and 3 frame 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 & 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, 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. 51
Date 31-7-41
Dates of Surveys held while building 1942.- Sept. 5, Oct. 1, 3, 5, 6, 10, 13, 14, 17, 19, 20, 21, 22, 23, 24, 27, 28, 29, 30, 31. Sept. 21, 29. Nov. 17, 26, 27, 30. Dec. 1, 2, 3, 5, 7.