

STEEL STEAMER or MOTORSHIP.

Received at London Office 7 JUN 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 April, 1943

Port of Vancouver, B. C.

No. 5903

Survey held at North Vancouver, B.C. Date First Survey 28th December, 1942 Last Survey 12th April, 1943

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Steel Single Screw Steamer "FORT ASH"

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 6703.14

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

Total

Gross Tonnage 7131.07

Net Tonnage 4245.02

REGISTERED DIMENSIONS. FEET.

Length 424.6'

Breadth 57.2'

Depth 34.9'

CLASS 100 A1 with 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) 416.00

Breadth (greatest moulded) 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) 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 North Vancouver, B. C.

Launched 4th March, 1943 Yard No. 174

Builders Burrard Dry Dock Co. Ltd.

Owners Minister of Munitions & Supply of Canada.

Managers Dene Shipping Co. Ltd.

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

Residence Cardiff.

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 3/8 length amidships to Collision bulkhead	27		" " Reversed Frame	-	
" " in peaks	24		" " Vertical Struts	-	
DE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 x .54	
Frame Amidships, Angle, [or]	12x4x4x.47		" " top Angles	3 1/2 3 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	
" " Extends up to	-		Margin Plate depth (excl. of flange) and thickness	6 3 1/2 .44	
Depth of Framing Girder	12		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	40 1/2 x .54	
Angles in Uppermost Continuous 'tween Decks, Angle, [or]	6 3 1/2 .50		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	Welded to Tank side Brackets	
No. 1 Hold (Frs. 135-162) [or]	15x4x4x.625		" " Gussets, spacing and scantling abaft 1/4 len. from stem	10 1/2 x .40 (FL 2")	
No. 2 Hold (Frs. 106-135) [or]	12x4x4x.59		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	Continuous	
from 1/2 len. for'd. to 15% len. from Stem	-		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	17" x .40 (FL 2")	
in Peaks, Angle, [or]	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 Dias.		INNER BOTTOM PLATING.		
Is 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	
DOUBLE 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 Wells, Angle, [or]	-	
Middle Line Keelson, on Floors, Angles, [or]			" " in way of Bridge, Angle, [or]	-	
" " Through Plate or Intercoastal Plate			Spacing	Every Frame	
" " Foundation Plate on Floors			Second Deck, amidships, Angle, [or]	9x3 1/2 x .38	
" " Flat Plate Keel Angles			Spacing	Every Frame	
Side Keelsons, No. each side			Third Deck, amidships, Angle, [or]		
" " thickness of Intercoastal Plate			Spacing		
" " Angles			Fourth Deck, amidships, Angle, [or]		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	.36" At 30"		Poop Deck, Angle, [or]		
" " Are Frame and Reversed Frame joggled?	Yes		Spacing		
Bracket Floors, breadth and thickness at middle line	-		Bridge Deck, Angle, [or]		
" " breadth and thickness at margin plate	-		Spacing		
			Forecastle Deck, Angle, [or]		
			Spacing		

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..... <u>One - in tween decks only.</u>				
" in 'tween Decks, Size and Spacing.....	6 6 6 on alt. frs.			
" " " " " "	- - -			
" in Holds " " " "	- - -			
" " " " " "	- - -			
Centre Line Bulkhead in Holds.				
Stiffeners and Spacing.....	12x3 1/2 x 3 1/2 x .45 on alt. frs.			
Plating, thickness of.....	.30			
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 Wells	.55			
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 Wells	- - -			
Thickness of Plating abreast Deck openings in way of Bridge	- - -			
Thickness of Plating within line of openings..	- - -			
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 jogged?.....	No	No	No	No	No	
	Breadth.	Thickness.	Thickness.	Thickness.								SINGLE OR DOUBLE.
	Inches.	Inches.	Inches.	Inches.			Diam.	Spacing. cr. to cr.		Diam.	Spacing. cr. to cr.	
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.

FORGINGS and CASTINGS.

For record: Y.B.H. (Coll. 6 Wks. 6 to 2nd. 4k. 6 divisional W.T. B.H.s in 'tween decks) NOT FOR RECORD		Casting or Forging.		Scantlings.		Maker's Name.		Any Departure from Approved Plans to be Noted.	
Total No. of W.T. BULKHEADS in Vessel—		Ins.		Ins.					
Extending to Upper Deck (Sec. 3 c) One(1) (Coll. on Fr.162)		Flat Plate		M.S. Fashion Plate					
Deck next below Seven(7) (Fr.Nos.12,40,58,66,93,106 & 135)		Upper Rolled Bar		10"x2 1/2" Algoma Steel					
In Tween Decks Six divisional W.T. B.H.s (Fr.19,40,66,93,106 & 135)		Lower Rolled Bar		As Prod. Co.					
As per Rule Seven (7)		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 coupling, vertical or horizontal		Double					
				Horizontal					
		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 Corp.							
		The Phoenix Iron Co., Algoma Steel Products Co. Ltd., Bethlehem Steel Co.							
		Has the Steel been tested as required by the Rules?		Yes					

EQUIPMENT No. 39800										LETTER <u>a</u>		ANCHORS.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.		WEIGHT REQUIRED BY SPECIFICATION	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.		
F5099	1st Bower.....	4833	0	0						68.0	C.S. BALOT TYPE	Vulcan Iron Works. 10	WINNIPEG JUNE 9/21/43
F5098	2nd "	4434	0	0						68.0	STOCKLESS		J.F. HIND
	3rd "												
	Collective Weight.	15540	0	0						136.0			
F5086	Stream	2442	0	0						23 3/4	C.S. BALOT TYPE STOCKLESS		WINNIPEG SEPT 1/DEC 1942

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE		Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.			
	Length.	Diam.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.		
1611A	180.	2 5/16	1000	830	57698 lbs.	600.	225	2 5/16	STUD LINK	BALOT ANCHOR CHAIN & FORGE CO.	CHESTER PA. 5-2-43. J.K. HELMS.	TOWLINE	123 3/4	4 3/4	48.2	120	4 3/4		
						Rule:	270	2 5/16	"			HAWSERS & WARPS	209 2 1/2	2 1/4	16.3	2090	2 3/4		
												"	209 2 1/2	2 1/2	15.3	2090	2 1/2		
Stream Chain - Steel Wire	92 1/2	5"			60.5	6 x 12 G.P.S.W.R.		90	5	G.S.W.R.									

Steering Gear, Type (Power or hand) Steam with telemotor control (Efficient arrangement of blocks and tackle led to to after warping winch.)

Steering Chains (Size and Test) Windlass Steam - 11" x 13" Boats (2020'x6.75'x2.60' 1026'x8.00'x3.25' 1028'x8.60'x3.75' (Motor)

Ceiling in Holds, thickness and material 2 1/2" thk. B.C. Fir Cargo Battens, thickness, material and spacing 2" thk. 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" x 20' 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

VICE President

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 and 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, 13th Apl. 1943 (Special notations, where part of class, to be stated.)

Special Survey Fee..... \$ 2145.00 Received by me, RL We are of opinion the Vessel should be Classed *100 A1 with

Travelling Expense, if any \$ 50.00 Owner's Rep. \$ 1000.00 at the earliest opportunity.

State whether the Vessel has been built under Special Survey Yes Signature D. Munro and J. Sinclair Surveyors to Lloyd's Register of Shipping.

Certificate to be sent to New York Date of issue 7/2/43

Committee's Minute FRI. 11 JUN 1943

Character assigned + 100 A1 Subject.

With Freeboard.

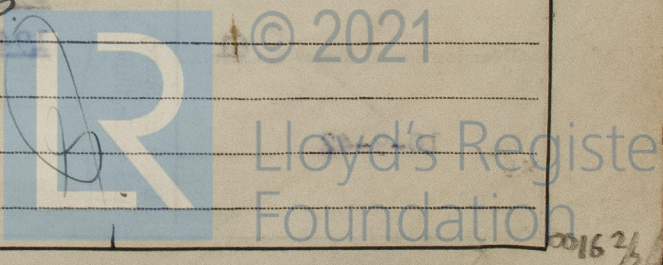
+ L.M.C. A. 43.

F.D. G.L.

Note S.A.

White and

Adm. Sec.



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 forty-first 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-5779 for cast steel stern frame.

Certificate No. F-6117 for rudder.

Certificate No. F-6008 for steam steering engine, quadrant and tiller.

Certificate No. F-5890 for windlass.

Certificate Nos. F-6089, F-5922, F-6098, F-6097, F-6016, F-5884, F-6099, F-6100, F-6018, F-5936 & F-3594 for winchew.

Certificate Nos. F-5099, F-5098 & F-5086 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) Upper deck stringer plate to sheerstrake; double bottom tank margin plates to shell, to side frame brackets, to gusset plate and to floors; hold bulkheads to tank top; closing plates to 2nd deck stringer plates, shell and tween deck frames; plate butts of double bottom tank top, centre girder, 2nd deck and upper deck plating and hatch side girders; also casings, tween deck bulkheads, centre line bulkheads and tunnels E.W. construction. 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.

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	5705 lbs.	J.F.H.	F-5099	7-1-43
2nd "	5617 lbs.	J.F.H.	F-5098	7-1-43
Stream	2005 lbs.	J.F.H.	F-5086	22-12-42

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.	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, 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, (If necessary, furnish further information by sketch.)		
Total length (if continuous) and Capacity S.W.	368.25	1149.			

Order for Special Survey No. 61

Date 10-9-42

Dates of Surveys held while building

1942 - Dec. 28, 29.

1943 - Jan. 26.

Feb. 3, 4, 5, 6, 9, 10, 11, 12, 13, 17, 19, 20, 24, 25, 26, 27.

Mar. 1, 2, 4, 16, 17, 22, 25.

Apr. 1, 2, 3, 6, 7, 8, 10, 12.

Total No. of Visits 34