

Rpt. 1.

STEEL STEAMER or MOTORSHIP

CAPE FRANKLIN
AFRICAN SKY

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 29th May, 1943 Port of Vancouver, B. C. No. 5919

Survey held at Vancouver and North Vancouver, B.C. Date First Survey 25th February, 1943 Last Survey 24th May, 1943

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

State Type (Full scantling, complete superstructure with or without Tonnage Openings) C.S.S. with T.O. closed State Type of Elections COMPLETE

TONNAGE under Tonnage Deck... 6703.95	CLASS #100 A1 with freeboard corresponding to a Summer Mld. Dft. Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 1476.00	State if with freeboard condition of Class Yes	Built at Vancouver and North Vancouver, B.C.
Do. of space or spaces between Tonnage Dk. and Upper Dk.	Breadth (greatest moulded) 56.88		Launched 8th Apr. 1943 Yard No. 172
Total Gross Tonnage 7133.61	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		Builders Burrard Dry Dock Co. Ltd.
Register Tonnage 4243.79	Depth to 2nd Deck 28.58		Owners Minister of Munitions & Supply of Canada.
	1st Longitudinal Number (L x D) 15529		Managers Lyle Shipping Co. Ltd. (Where necessary to be entered in Reg. Book.)
	2nd Numeral L x (B + D) 39191		Residence Glasgow
REGISTERED DIMENSIONS. FEET.	Framing Depth "d," at middle of length. See Sec. 3 (1d) 25.08		Port of Registry
Length 424.6'	Proportions—Depth to Length — Uppermost continuous deck to top of keel Do. Long Bridge to top of keel 11.14		If surveyed while building, afloat, or in dry dock
Breadth 57.2'	Draught Moulded 26.86		Building and Afloat.
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 3/8 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 [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	6 3 1/2 .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 Brackets	
Frames 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	10 1/2 x .40 (Fl 2")	
" " Second 'tween Decks, Angle [or]	-		" " Gussets, spacing and scantling/abaft 1/4 len. from stem	Continuous	
" " No.1 Hold (Frs. 135-162) [15x4x4x.625			" " Gussets, spacing and scantling/ from forward 1/4 len. from stem to Panting Area	17" x .40 (Fl 2")	
" " No.2 Hold (Frs. 106-135) [12x4x4x.59			" " Fr. 144 to F.P. End	Continuous	
" " from 1/2 len. for'd. to 15% len. from Stem			Tank Side Brackets, height above base line at toe of Frame and thickness	104 1/2 x .45	
" " in Peaks, Angle or [8 3 1/2 .34		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 At 6 1/2 Dias.		Breadth and thickness of Middle Line Strake	84 x .48	
State if Frame Joggled	No		Thickness of remainder in Holds	.44	
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	8 3 1/2 .46	
Floors, Depth and thickness at mid-line in Holds			" " in Wells, Angle [or]	-	
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.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows. <u>One - in tween decks only.</u>			Stringer Plate, breadth and thickness in way of Bridge	- - -	
" in 'tween Decks, Size and Spacing.....	<u>6 6 8</u>	<u>on alt. frs.</u>	Thickness of Plating abreast Deck openings in way of Wells	<u>.35</u>	✓
" " " " " "	- - -		Thickness of Plating abreast Deck openings in way of Bridge	- - -	
" in Holds " " " " " "	- - -		Thickness of Plating within line of openings..	<u>.34</u>	✓
" " " " " "	- - -		If Sheathed, material and thickness.....		
Centre Line Bulkhead. in Holds			Third Deck.		
Stiffeners and Spacing.....	<u>12x3x3</u>	<u>x.45</u>	Stringer Plate, breadth and thickness.....		
Plating, thickness of.....	<u>.30</u>		If Plated, state thickness.....		
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells.....	<u>61 x .64</u>	✓	If plated, state thickness.....		
" " " " " " in way of Bridge.....	- - -		Poop Deck.		
" <u>Angle in Wells - E.W. to Sheerstrake</u>		✓	Stringer Plate, breadth and thickness.....		
Thickness of Plating abreast Deck openings in way of Wells.....	<u>.55</u>	✓	Plating, Sheathing, material and thickness.....		
Thickness of Plating abreast Deck openings in way of Bridge	- - -		Bridge Deck.		
Thickness of Plating within line of openings..	<u>.40</u>	✓	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 Wells.....	<u>50" x .43"</u>	✓	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. State if jogged? Yes ✓			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		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 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.....												
FORE'C'TLE SIDE PLATING												

WATERIGHT BULKHEADS.					FORGINGS AND CASTINGS.				
FOR RECORD: "BH/Co'd W. dk, 652nd dk) divisional W.T.B.H.s in 'tween dks NOT FOR RECORD Total No. of W.T. BULKHEADS in Vessel—					Casting or Forging. Scantlings. Maker's Name. Any Departure from Approved Plans to be Noted				
Extending to Upper Deck (Sec. 3 c) One(1) (Coll. on Fr.162) (Fr.Nos.12,40,58,66, " Deck next below Seven(7) (93,106 & 135) In Tween Decks—Six divisional W.T.Bhds. (Frs.19 As per Rule—Seven(7) 40,66,93,106 & 135)					Flat Plate Upper Rolled Bar M.S. Fashion Plate 10"x2" Algoma Steel Products Co.				
STIFFENERS.					STERN FRAME { Propeller Post C.S. (As Appd. - Vcr. Eng. Wks { Rudder " - - - - -				
Plating Thickness.					Speed of Vessel..... Not exceeding 12 knots.				
VERTICAL.					RUDDER—Type Semi-Balanced Streamlin				
HORIZONTAL.					" A x D 282 - - ✓				
Ins. Scantlings. Spacing. Scantlings. Spacing.					" Diam. of head - 9 1/2" Dia. ✓				
(Fr.93 ✓					" Mainpiece at top pintle - 12" Dia. ✓				
Upper tween decks .26 6x3 1/2 x 38 30 - -					" " heel - 9 1/2" Dia. ✓				
" Second " - - - - -					" how constructed Built, Riv'd & E.W. ✓				
" Third " - - - - -					" double or single plate Double ✓				
" Holds 26/39 12x3 1/2 x 38 30 - -					" coupling, vertical or Horizontal ✓				
" horizontal - - - - -									
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" ✓									
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open Hearth ✓									
STEEL. 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 <i>a</i>			ANCHORS.			
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY SPECIFICATION.		Description of Anchor.	Makers.	Where and when tested and Superintendent.		
		Wts. lbs.	Cwts. qrs. lbs.	Tons. cwts. qrs. lbs.	Cwts.						
<i>F5199</i>	1st Bower,	<i>44 16</i>	✓	<i>for carrying 1000 lbs. in 10 S. 1000 lbs. in 10 S. 1000 lbs. in 10 S.</i>	<i>68.0</i>		<i>C.S. BALOT TYPE STOCKLESS.</i>	<i>VULCAN IRON WORKS L^o</i>	<i>Jan - FEB 1943</i>		
<i>F5195</i>	2nd "	<i>4620</i>	✓		<i>68.0</i>				<i>J.F. HIND</i>		
	3rd "								<i>JAN - MAR 1943</i>		
	Collective Weight	<i>153 36 195</i>	✓			<i>136.0</i>					
<i>F5199</i>	Stream	<i>20 33 195</i>	✓			<i>23 3/4</i>	<i>C.S. BALOT TYPE STOCKLESS.</i>	<i>VULCAN IRON WORKS L^o</i>	<i>WINNIPEG OCT 1942 - MAR 1943 J.F. HIND</i>		

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. Fathoms.	Diam. Ins.	Stattu-Ins.	Break-Ins.	Supplied. lbs.	Per Rule. Cwts.	Length. Fathoms.	Size. Ins.					Length. Fathoms.	Size. Ins.		Length. Cir.	Size. Tons.
F7202	180	2 1/2	223	208	2114	600	225	2 1/2	H.T. ELECTRO-WEID STEEL PROD LINKS	VANCOUVER B.C. 30-4-43. J.B. STEWART. METHL. PRODUCED 12-5-43. L.B. HAMPTON.		TOWLINE	123 1/2	4 3/4	78.2	120	4 3/4
F4209.	30	2 1/2	834	510	6930		270		NACO JOINING LINKS	NATIONAL MILLERBLEEG STEEL CASTING		HAWSERS & WARPS	209 1/2	2 1/2	16.3	2090	2 1/2
A.B. of S.	14 1/2	2 1/2	823	930						PITTSBURGH, PA. APR 1943. J.R. SMITH		"	209 1/2	2 1/2	15.3	2090	2 1/2
38221	80 1/2	2 1/2	834	510	844							"	209 1/2	2 1/2	15.3	2090	2 1/2
Stream Steel Wire	92 1/2	5	60.5		6 x 12 G.S.W.R		90	5				"					

Steering Gear, Type (Power or hand) Steam with telemotor control (Efficient arrangement of blocks and tackle led to Alternative Means of Steering 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 3/4" thk. B.C. Fir Cargo Battens, thickness, material and spacing 1 1/2" thk. B.C. Fir
9" Clear

Cargo Hatchways.—(Upper Deck) Strong steel plates and angles Thickness of Hatches 2 7/8" and 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 x Bkr. 8'x20'

Number of Shifting Beams Nos. 1, 2, 4 and 5 -- each 5. No. 3 - 2. x Bkr. - 1.
and/or Fore and Afters

Burrard Dry Dock Company, Limited

Builder's Signature C. W. Mason
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 material 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

Special Survey Fee..... £ \$ 2145.00
Freeboard \$ 100.00

Travelling Expense, if any £ \$:50.00
Owner's Rep. \$ 1000.00

Fees applied for,
25th May, 1943

Received by me,
✓ 19

(Special notation, where part of class, to be stated.)

I am of opinion the Vessel should be Classed A1 with Freeboard, subject to 45 fathoms of stud link chain cable of Rule weight and size being supplied at the earliest opportunity.

Signature M. J. and S. Sinclair.
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Nyk. Date of issue 22/10/43

TUES. 7 SEP 1943

Committee's Minute

Character assigned
+ 100A1 With Freeboard
subject
+ LMC 5.43: F.D.C.L.

wrote N.Y.

Lloyd's Reg Foundation

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-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.

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

A copy of each of the following Certificates attached hereto:-

Certificate No. F-5841 for cast steel stern frame.

Certificate No. F-6672 for rudder.

Certificate No. F-6520 for steam steering engine, quadrant and tiller.

Certificate No. F-6638 for steam windlass.

Certificate Nos. F-6766, F-6809, F-6755, F-6846, F-6769, F-6797, F-6754, F-6847, F-6767, F-6799 & F-6678 for winches.

Certificate Nos. F-5149, F-5185 & F-5189 for anchors.

There are six (6) divisional bulkheads in the tween decks. These are all watertight and have no tonnage openings in them except on bulkhead No. 93 (between No.3 tween decks and tween deck bunker) where steel hinging W.T. doors are fitted over the openings (1 port and 1 star-board).

PARTICULARS OF ELECTRIC WELDING (if employed) Upper deck stringer plate to sheerstrake; double bottom tank margin plates to shell, to side frame brackets, and to floors; gusset plates to double bottom tank top and side frame brackets; hold bulkheads to tank top; closing plates to 2nd deck stringer plates, shell and frames; plate butts of shell plating, double bottom tank top (part), centre girder and hatch side girders; also tween deck bulkheads, tunnels, deckhouses and masts, E.W. construction and butts and seams of Upper and 2nd deck plating welded Union Melt. 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.	5600 lbs.	J.F.H.	F-5149	28th Jan., 1943
	2nd "	5625 lbs.	J.F.H.	F-5185	1st Mar., 1943
	Stream	1995 lbs.	J.F.H.	F-5189	16th Feb., 1943

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) Well 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. 61
Date 10-9-42
Dates of Surveys held while building
1943. Feb. 12.
Mar. 4, 9, 11, 15, 16, 17, 18, 19, 23, 24, 25, 26, 27, 29, 30, 31.
Apr. 1, 2, 3, 6, 7, 8, 9, 16, 28, 29.
May 4, 7, 10, 15, 18, 19, 20, 22.

Total No. of Visits 35