

STEEL STEAMER ~~OF MOTORSHIP~~

Received at London Office

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

State if Report is sent on the Machinery of the Vessel

Date of completion of report 17th February, 1943

Port of Vancouver, B. C.

No. 5880

Survey held at Vancouver, B.C.

Date First Survey 28th October, 1942

Last Survey 15th February, 1943

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

Steel Single Screw Steamer "FORT STAGER"

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

C.S.S. with T.O. Closed

State Type of Erections

--

TONNAGE under 6703.61
Tonnage DeckCLASS 100 A.L. with State if with freeboard Yes
Freeboard correspond as condition of Class
ing to a Summer Mid Draft 26'-10" FEET.

Built at Vancouver, B.C.

Do. of space or spaces
between Tonnage Dk.
and Upper Dk.Length from fore part of stem to after part of stern
post on summer L.W.L. See Sec. 3 (1a) L 416.0'

Launched 23rd Dec. 1942 Yard No. 114

Total

Breadth (greatest moulded) B 56.88'

Builders West Coast Shipbuilders, Ltd.

Gross Tonnage 7131.76

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'Owners Minister of Munitions & Supply
of Canada.

Register Tonnage 4244.31

" to 2nd Deck - 28.58'

Managers Messrs. Sir R. Ropner & Co. Ltd.
(Where necessary to be entered in Reg. Book.)

1st Longitudinal Number (L x D) = 15529

2nd Numeral L x (B + D) = 29191

Residence West Hartlepool.

REGISTERED DIMENSIONS.
FEET.

Length 424.6'

Framing Depth "d," at middle of length. See
Sec. 3 (1d) 25.08

Port of Registry --

Breadth 57.2'

Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel 11.14

If surveyed while building, afloat, or in dry dock

Depth 34.9'

Do. Long Bridge to top
of keel -

whilst building & 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 $\frac{3}{4}$ length amidships to Collision bulkhead	27 ✓		" " Reversed Frame	- - -	
" " in peaks	24 ✓		" " Vertical Struts	- - -	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43½ x 16 ✓	
Frame Amidships, Angle, [or]	12x4x4x.47 ✓		" " top Angles	3½x3½x.44 ✓	
" " Extends up to	2nd Deck ✓		" " bottom Angles	4 x 4 x.50 ✓	
Reversed Frame Amidships, Angle	- - -		Side Girders, No. each side and thickness	One ✓	
" " Extends up to	- - -		B.A.'S Top & Bottom	6x3½x.44 ✓	
Depth of Framing Girder	12 ✓		Margin Plate depth (excl. of flange) and thickness	40½x9/16" ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6x3½x.50 ✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	Welded to tank side ✓	
" " Second 'tween Decks, Angle, [or]	- - -		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area	Bkts. ✓	
No. 1 Hold Frs. 135-162	15x4x4x.625 ✓		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	10½x3 FL 2" ✓	
No. 2 " " 106-135	12x4x4x.625 ✓		" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to fore peak	17x3 FL 2" ✓	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	- - -		Tank Side Brackets, height above base line at toe of Frame and thickness	104½ x.7/16" ✓	
" " in Peaks, Angle or [8x3½x.34 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	7/8 at 6½ dia. ✓		Breadth and thickness of Middle Line Strake	84 x .½ ✓	
State if Frame Joggled	No ✓		Thickness of remainder in Holds	7/16" ✓	
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 x 3½x.48 ✓	
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 9x3½x.38 ✓	
Middle Line Keelson, on Floors, Angles, [or]	- - -		Second Deck, amidships, Angle, [or]	12x4x4x.47 ✓	see plan
" " 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 spacing	11 32 @ 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, No. of Rows.....One in tween decks only
in 'tween Decks, Size and Spacing.....6 x 6 x 5/8 on alternate frs.
Centre Line Bulkhead. in Holds CH. 12x4x7/16 on alternate frs.
Plating, thickness of 5/16
STRINGERS AND DECKS.
Uppermost Continuous Deck.
Stringer Plate, breadth and thickness in Holds 61 x 5/8
in way of Bridge welded to sheerstrake.
Thickness of Plating abreast Deck openings 9/16
Thickness of Plating within line of openings 3/8
If Sheathed, material and thickness
Second Deck.
Stringer Plate, breadth and thickness in Holds 50 x 7/16
Thickness of Plating abreast Deck openings
Thickness of Plating within line of openings
If Sheathed, material and thickness

SHELL PLATING.
SCANTLINGS.
AS IN VESSEL.
ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.
STRAKES.
FLAT PLATE KEEL 52 3/4 11/16 11/16
Bottom Plating, No. of Strakes 4 5/8 1/2 1/2
BILGE PLATING, No. of Strakes 1 5/8 1/2 1/2
SIDE PLATING, No. of Strakes 3 5/8 1/2 1/2
UPPER DECK, Sheer-strake in Walls 84 11/16 1/2 1/2
UPPER DECK, Sheer-strake in Bridge
STRAKE BELOW SHEER-strake in Walls 78 5/8 1/2 1/2
STRAKE BELOW SHEER-strake in Bridge
POOP SIDE PLATING
BRIDGE SIDE PLATING
FORECASTLE SIDE PLATING
RIVETING.
EDGES.
BUTTS.
No. of Rows of Rivets.
Diam. Spacing cr. to cr.
Diam. Spacing cr. to cr.

WATERTIGHT BULKHEADS.
FOR RECORD: 7 BH (all 6' W dk, 6' 6" 2nd dk) 6 divisional WT BHs in tween decks
Total No. of WT. BULKHEADS in Vessel (See page 4)
Extending to Upper Deck (Sec. 3 c) One (1) Coll. on Fr. 162
Deck next below Seven (7) Frs. 12, 40, 58, 66, 93, 106
In Tween Dks:-Six Divisional W.T. BHs. Frs. 19, 40, 66, 93, 106
As per Rule. Seven (7)
STIFFENERS.
VERTICAL.
HORIZONTAL.
Midship Bulkhead, Upper tween decks Fr. 93 0.A. 1/4 6x3 1/2 x 38 30"
Second " " " " " " " " " " " "
Third " " " " " " " " " " " "
Holds " " " " " " " " " " " "
COLLISION (in Hold) Fr. 162 1/2 7x3 x 36 24" 3 strgrs. 6' 0"
AFTER PEAK " " Fr. 12 5/16 7x3 x 38 24" " "
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open Hearth Process
Algoma Steel Corp.; Manitoba Rolling Mills; Central Iron & Steel; Phoenix Iron Co.; U.S. Steel Corp.; Steel Company of Canada.
Has the Steel been tested as required by the Rules? Yes

EQUIPMENT No. 39800 LETTER A 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.
F. 5006 1st Bower 7719 lbs. - - - 68 C.S. BALOT TYPE VULCAN IRON WORKS LTD. WINNIPEG 29.10.42. J.F.HIND.
F. 5069 2nd " 7702 - - - 68 STOCKLESS. " " " " " " " " " " " "
3rd " " " " " " " " " " " " " " " " " "
Collective weight. 15421 lbs.
F. 5042 Stream 2970 lbs. - - - 23 1/2 C.S. BALOT TYPE VULCAN IRON WORKS LTD. WINNIPEG 17.11.42. J.F.HIND.

CHAIN CABLES.
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.
1606 225 2 5/8 8424630 lbs. 12690 lbs. 600. 225 2 5/8 C.S. SHARON PA. 3.12.42. A.T. GRIMES. TOWLINE. 121 1/2 4 1/2 65.3 120 4 1/2
1549 - 2 5/8 - 0. 316 lbs. - - - 2 5/8 2 5/8 NACO LINKS. MALLEABLE & STEEL SHARON PA. 3.9.42. A.T. GRIMES. HAWSEERS & WARPS. 183 2 1/2 5.5 20 2 1/2
1552 - 2 5/8 - 0. 685 lbs. - - - 2 5/8 2 5/8 NACO LINKS. CASTINGS CO. SHARON PA. 3.9.42. A.T. GRIMES. " 183 2 1/2 13.25 20 2 1/2
Stream Chain (see Steel Wire) 9 1/2 5 5822 TONS. - - - 9 5 GSWR. NUBERTS CANADIAN ROPES LTD. " " " " " " " " " " " "
Builder's Signature B. S. M. Laro General Manager

Steering Gear, Type (Power or hand) Steam with Telemotor control Alternative Means of Steering blocks & tackle to aft warp ing winch
Steering Chains (Size and Test) Windlass Steam 11" x 13" Boats 1 @ 20' - 0" 1 @ 26' - 0" 1 @ 28' - 0" (motor) 1 @ 28' - 0" 9" clear
Ceiling in Holds, thickness and material 2 1/2" B.C. Fir Cargo Battens, thickness, material and spacing 1 1/2" B.C. Fir 9" clear
Cargo Hatchways. (Upper Deck) Steel plates and angles Thickness of Hatches 3" B.C. Fir Cross Bunkers 8' x 20'
Size of Hatchways No. 1 (Fwd) 33' - 9" x 20' No. 2 35' x 20' No. 3 15' x 20' No. 4 35' x 20' No. 5 35' x 20'
Number of Shifting Beams Nos. 1, 2, 4 & 5 - each 5; No. 3 - 2; Cross Bunker - 1.
WEST COAST SHIPBUILDERS LTD.
Builder's Signature B. S. M. Laro General Manager

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
This ship has been constructed in accordance with the approved plans, instructions & printed Rules of the Society. The materials and workmanship are of good quality. The double bottom tanks peaks, deep tanks and fresh water tanks, decks, bulkheads, tunnels, watertight doors, steering gear & windlass have been tested & found satisfactory. The freeboards assigned by the Committee have been marked on the ship's side 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 & 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 head and shank were substituted, (28 tons per sq. inch minimum with usual extension). It is recommended that a suitable notation be entered in the First Entry Certificate because of these departures from the Rules. This ship has been surveyed on behalf of the Minister of Munitions & Supply of Canada in accordance with the Hull Specification requirements which have been carried out to my satisfaction.

The amount of Entry Fee \$ 50.00 Fees applied for, 17th Feb. 43
Special Survey Fee... \$ 2145.00 Received by me, R. B. WE ARE.
Travelling Expenses, if any \$ 50.00 Date of issue 17.5.43
Owner's Rep. \$ 1000.00 State whether the Vessel has been built under Special Survey Yes
Certificate to be sent to New York Date of issue 17.5.43
Committee's Minute FRI, 16 APR 1943
Character assigned + 100 A1 with freeboard
+ LMC 2.43 FD CL
Write T/F
Lloyd's Register 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 fourteenth of this type to be built by the West Coast Shipbuilders, Limited, to the order of the Minister of Munitions & Supply of Canada and is a sister ship to the West Coast Shipbuilders' Yard No. 101 S.S. "FORT CHILCOTIN", (Vancouver Report No. 5764)

The approved plans have been retained for sister ship building and to be built.

Blueprint plan of the midship section is forwarded herewith.

Interim Certificate issued - copy attached.

Immersed ship side openings Certificate issued - copy attached.

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

Certificate No. F-4807 for cast steel stern frame.

Certificate No. F5617 for rudder.

Certificate No. F-5609 for steam steering engine, quadrant and tiller.

Certificate No. F-5386 for windlass

Certificate Nos. F-1869, 1879, 4662, 4812, 1882, 1866, 4659, 4660, 1867, 1868, 3620. for winches.

Certificate Nos. F-5006, F-5069, F-5042 for anchors.

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

All tween deck bulkheads have been hose tested and found satisfactory.

PARTICULARS OF ELECTRIC WELDING (if employed) — D.B. Tanks, W.T. floors, margin plates to shell side frame brackets and to floors. Gusset plates to tank top and frame brackets. Upper deck stringer to sheerstrake. Hold bulkheads to tank top. 2nd Deck closing plates to shell and frames. Plate butts of shell, upper deck, 2nd deck, center girder, hatch side girders and other items of minor importance.

ELECTRODES: Complying with Section 4, Paras. 1 to 9 of the Rules have been employed for manual welding, & the Rules for the application of Electric Welding to ship construction have been complied with.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book.

Cruiser stern, Direction Finding Apparatus, Echo Sounder, Wireless

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	5727 lbs.	J.F.H.	F-5006	29-10-42
	2nd "	5602 lbs.	J.F.H.	F-5069	10-12-42
	Stream	2040 lbs.	J.F.H.	F-5042	17-11-42

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 **439.7'**
(Circ. 1611) (Circ. 1703)

No. and Material of Decks **Two - Steel**

Parts of Bottom of Vessel coated with cement or approved composition **D.B. Tanks cement wash & fillets on bottom shell except in way of E & B spaces where there is 1½" cement on bottom shell, cement wash elsewhere throughout. Bitumastic solution and enamel on tank top in E & B spaces. Steelwork in bilges cement wash throughout.**

Particulars of composition (if fitted) and of approval **Bitumastic Solution & Enamel**

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, No. 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	S.W. 20.0	89	Deep tank, forward, Starboard	S.W. 20	375
Double bottom, forward, No. 1, 2, 3 & 4	S.W. 188.25	648	Other tanks, if fitted,		
Total length (if continuous) and Capacity	368.25	1149	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. **59**

Date **30-3-42**

Dates of Surveys held while building

1942.- Oct. 28, Nov. 12, 13, 17, 18, 20, 23, 26, Dec. 1, 2, 3, 4, 7, 8, 9, 10, 12, 15, 16, Dec. 17, 18, 21, 22, 23.
1943.- Jan. 27, 28, 29, 30.
Feb. 1, 2, 3, 4, 9, 10, 11, 12, 15.

Total No. of Visits **37**