

YES

YES

No. 9

19 42

AVIS MERE

State Type of Erections

Built at RICHMOND, CALIF.

Launched December 18th, 1941 Yard No. 19

Builders TODD-CALIFORNIA SHIPBUILDING DIVISION

of THE PERMANENTE METALS CORPORATION

Owners H.M. GOVERNMENT IN THE UNITED KINGDOM

Managers.....

Residence ---

Port of Registry..... LONDON

If surveyed while building, afloat, or in dry dock

on stocks, afloat and in dry dock

[illegible]

		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.			INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
Reinforced hatch side girders & strong hatch end				beams in accordance with approved plans.			
PILLARS , No. of Rows.....One, in tw. decks only		(6 6 .38 angle		Stringer Plate, breadth and thickness in way of Bridge		40 ✓	
" in 'tween Decks, Size and Spacing.....		(5 5 .38 "		Thickness of Plating abreast Deck openings) xxxxxx			
" " " " "		alt. frs. ↑		Thickness of Plating abreast Deck openings) in way of Bridge		40 ✓	
" " " " "		--		Thickness of Plating within line of openings...			
" " " " "		-- see plans		If Sheathed, material and thickness			
Centre Line Bulkhead , in holds		(9 7 1/2 x .36/.57 inv. T		Third Deck.			
Stiffeners and Spacing.....		(7 4 x .38 inv. angle		Stringer Plate, breadth and thickness.....			
Plating, thickness of		on alt. frames		If Plated, state thickness.....			
		.30 ✓		Fourth Deck.			
STRINGERS AND DECKS.				Stringer Plate, breadth and thickness.....			
Uppermost Continuous Deck.				If Plated, state thickness			
Stringer Plate, breadth and thickness xxxxxx		65 x .62 ✓		Poop Deck.			
" " " " in way of Bridge		--		Stringer Plate, breadth and thickness			
" xxxxxx welded to		--		Plating, Sheathing, material and thickness ...			
sheerstrake		--		Bridge Deck.			
Thickness of Plating abreast Deck openings) xxxxxx62 ✓		Stringer Plate, breadth and thickness.....			
Thickness of Plating abreast Deck openings) in way of Bridge		--		Plating, Sheathing, material and thickness ...			
Thickness of Plating within line of openings...		.40 ✓		Forecastle Deck.			
If Sheathed, material and thickness		--		Stringer Plate, breadth and thickness.....			
Second Deck.				Plating, Sheathing, material and thickness ...			
Stringer Plate, breadth and thickness xxxxxx		108 x .40 ✓					

[illegible]

WATERTIGHT BULKHEADS.				Casting or Forging.		Scantlings.		Maker's Name.		Any Def. from App. Plans to b	
<p>Total No. of W.T. BULKHEADS in Vessel <i>the number of B.Hs for record afloat kept by from Mr. Polli to Mr. Ward's letter 13.5.42</i></p> <p>Extending to Upper Deck (Sec. 3 c) <i>Copy attached to F.E. Rpt on "FORT ST. JAMES"</i></p> <p>Deck next below <i>SEVEN</i></p> <p>As per Rule <i>SEVEN</i> <i>opening in 'th' B.H. closed as per MS 1235</i></p>				<p>KEEL, Bar</p> <p>STEM <i>Rolled Bar</i> <i>10" x 2 1/2"</i></p> <p>STERN FRAME { Propeller Post As per approved plan ✓</p> <p><i>Rudder</i> " C.S., Columbia Steel Co. Pittsburg, Calif.</p> <p>Speed of Vessel Not exceeding <i>12</i> knots.</p> <p>RUDDER—Type Goldschmidt Patent Stres</p> <p>constructed by Bethlehem Steel Co., Leetsdale, <i>299</i> ✓</p> <p>" A x D <i>9 1/2"</i> Newport News</p> <p>" Diam. of head <i>12 3/4"</i> ✓ <i>12 1/2"</i></p> <p>" Mainpiece at top pintle <i>10"</i> ✓</p> <p>" " heel ...</p> <p>" how constructed All welded seamless ste with horizontal plate d</p> <p>" double <i>crossing</i> plate <i>Horizontal</i> ✓</p> <p>" coupling, <i>space</i> or horizontal.....</p>							
STIFFENERS.				VERTICAL.		HORIZONTAL.					
Plating Thickness.				Scantlings.	Spacing.	Scantlings.	Spacing.				
Fr. 81											
MIDSHIP BULKHEAD, Upper tween decks				.26	inv. angle 5x3x5/16	30"-31 1/2"	✓				
" " Second "				--							
" " Third "				--							
" " Holds				.28-	inv. T. 45 9x7 1/2 x .36	30"-31 1/2"	✓				
COLLISION " (in Hold)				.30-	inv. angle 52 6x3 1/2 x .38	24"	✓	(1 steel flat & 2 semi box beams)			
AFTER PEAK " "				.32-	inv. angle 70 6x3 1/2 x .38	24 1/2"	✓	(24 x .34 ✓)			
<p>Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture). S. M. Open Hearth</p> <p>Bethlehem Steel Co., Columbia Steel Co., Republic Steel Corp., BV-Products Steel Corp.</p> <p>Has the Steel been tested as required by the Rules? YES ✓</p>											

Number of Certificate.	Anchors.	WEIGHT OF STOCKLESS	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts. lbs.	Cwts. lbs.	tons. cwt. lbs.	Cwts. lbs.			
756	1st Bower ...	7850	lbs	—	120400 lbs.	Baldt Stockless	Columbia	Pittsburg, Cal. 7/11/41
757	2nd „ ...	7800	“	—	120120	“	Steel Co.,	“ H.N. Clegg
—	3rd „ ...		“	—		“	Pittsburg	“
	Collective weight.	15650			194 $\frac{1}{2}$		California	
761	Stream	2582	“	—	52000			

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.	
																		Fathoms.
9724	225	2 5/16	✓	✓	215600 lbs.	✓	70480	720	3/4	270	2 5/16	S.L.	Baldt Anchor	(O.Narbeth Chester 24/11/41 NEW LINE	120-5	1 3/8	160,000	120 4 3/4
9813a	17	2 3/4	"	"	1700	"	Joining Shackles	Chain & Forge	(O.Narbeth Chester 29/12/41 SAWSERS & WARPS)	20-90	2 3/4	34048	20-90	2 3/4	34048	20-90	2 3/4	
9786	5	3 1/4	"	"	865	"	End	Co.	(S. Smyth Chester 26/12/41)	20-90	2 1/2	29560	20-90	2 1/2	29560	20-90	2 1/2	
9786	12	2 3/4	"	"	1080	"	Spare Joining	"	"	20-90	2 1/2	29560	20-90	2 1/2	29560	20-90	2 1/2	
9786	90	5 1/8	✓	✓	118400	✓	lbs. (6x12)	--	90	5	(6x12)	--	--	--	--	--	--	

Steering Gear, Type (Power or hand) Steam, Summer Iron Works ✓ **Alternative Means of Steering** Efficient arrangement of blocks
Everett, Wash. and tackles led to after warping winch

Steering Chains (Size and Test) -- **Windlass** Steam, Summer Iron Works **Boats** 2 @ 20x6.75x2.6
Everett, Wash. 1 @ 26x8x3.25

Ceiling in Holds, thickness and material 2 1/2" Pine ✓ **Cargo Battsens**, thickness, material and spacing 1 3/4" Pine, 9" Clear ✓

Cargo Hatchways—(Upper Deck) Strong steel plate coamings ✓ **Thickness of Hatches** 2 3/4" Pine ✓

Size of Hatchways **No. 1** (Fwd.) 33'9"x20' ✓ **No. 2** 35' x 20' ✓ **No. 3** 15' x 20' ✓ **No. 4** 29'9" x 20' ✓ **No. 5** 35' x 20' ✓ **No. 6** 7'6"x20' ✓

Number of **Shifting Beams** } **No. 1 - 5** ✓ **No. 2 - 5** ✓ **No. 3 - 2** ✓ **No. 4 - 5** ✓ **No. 5 - 5** ✓ **X. Bkr. - 1** ✓
and/or **Fore and Afters** }

Builder's Signature TODD-CALIFORNIA SHIPBUILDING DIVISION
of THE PERMANENTE METALS CORPORATION
CP B. [Signature]

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 ✓
be indicated, together with the flash point (where required to be inserted in the Notation). The positions in which oil is carried as fuel or cargo should

This vessel has been constructed in accordance with the approved plans, the Secretary's letters of various dates, and in compliance with the Rules and Regulations for the class contemplated. ✓

The workmanship and materials are good. ✓ decks?

The double bottom, peak, deep and fresh water tanks, bulkheads, tunnels, W.T. door, steering gear and windlass have been tested and found satisfactory.

The freeboards assigned by the Committee have been marked on the vessel's sides, and verified, the vessel being of the shelter deck type, with the tonnage opening permanently closed by riveted plate, and the bulkheads being carried watertight to the upper deck. An endorsement has been issued with the provisional Load Line Certificate, relating to emergency deeper loading in accordance with Circular No. 1784.

✓ The equipment of anchors and chain cables is in accordance with the War Emergency Reduction of Equipment Requirements, and it is recommended that a suitable notation be entered on the First Entry Certificate. ✓

The vessel is fitted with Direction Finding Wireless equipment; also with Echo Sounding Device, which does not pierce the shell plating.

The vessel has also been surveyed during construction on behalf of the British Purchasing Commission, in accordance with the requirements of the hull specification, and the specification requirements have been completed to our satisfaction. ✓

The amount of Entry Fee £ *30.22.80*
 Special Survey Fee... £ *30.22.80*
 Travelling Expenses, if any £ : :
 Fees applied for, *in London*
24. 4. 1942
 Received by me, _____
 19. _____
 I am of opinion the Vessel should be Classed + 100 A1
 With Freeboard corresponding to a summer
 mld. draft of 26' 10".
 Signature *J. B. Cochrane*
 Surveyor to Lloyd's Register of Shipping.
 Date of issue *29/5/42*
 Certificate to be sent to *Owners London*
New York

Committee's Minute

NEW YORK MAR 18 1942

Character assigned #100A1 With freeboard
+ LMC # 2, 42.

NOTE - ELEC. WELDED
CRUISER STERN. A * CP.
EQUIPT. LTR. at. DF - END.
3 VB (CUT) 220 LTR.
CL - ELEC. LIGHT.

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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.)

The vessel is the ninth of thirty sister ships, Nos. 1 to 30, to be built by the Todd-California Shipbuilding Division of the Permanente Metals Corporation, to the order of H. M. Government in the United Kingdom. The approved plans have been retained for dealing with the sister vessels.

Forwarded herewith:

MIDSHIP SECTION AS BUILT
COPY OF INTERIM CERTIFICATE B
THREE CASTINGS AND FORGING REPORTS

SISTER SHIPS:

Yard No. 1. "OCEAN VANGUARD", Richmond, Calif., Report No. 1
2. " VIGIL " " " 2
3. " VOICE " " " 3
4. " VENTURE " " " 4
5. " VIKING " " " 5
8. " VESTAL " " " 6
6. " VESPER " " " 7
7. " VALLEY " " " 8

PARTICULARS OF ELECTRIC WELDING (if employed) The vessel is of entirely welded construction, with the exception of the connections of side framing to shell, and rider plates to hatch side girders, and end beams which are riveted. Electrodes, complying with Section 4, paras. 1-9, of the Rules, have been employed for manual welding. Machine welding by the approved "Unionmelt" Process has also been used. The form and location of the various welded joints employed are in accordance with welding details approved by the Committee. 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; Lloyds A & CP:, D.F., E.S.D.

Electric Welding Notation to be decided by the Committee

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	Weight of head, 6020 lbs., H.C. 756, Nov. 7, 1941
	2nd "	" " " 5930 " " 757, " " "
	Stream	" " " 1910 " " 761, Nov. 7, 1941

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. *not yet issued* Signal Letters *not yet issued* Extreme Breadth over Belting No belting Over-all Length 441.5 (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 under machinery spaces coated with 1½" solid cement on bottom, with bitumastic on other surfaces. Remainder of D.B. tanks cement washed only; peaks cemented.

Particulars of composition (if fitted) and of approval Bitumastic enamel and solution.

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,	135	361	Fore peak tank,	22.8	12
Double bottom, under Engines and Boilers,	45	212	After peak tank,	24.9	16
Double bottom, if under Engines only,	--	--	Deep tank, aft,	20.0	72
Double bottom, if under Boilers only,	--	--	Deep tank, forward,	--	--
Double bottom, forward,	188.2	735	Other tanks, if fitted,	--	--
Total length (if continuous) and Capacity	368.2	1308	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. ✓

Date ✓

Dates of Surveys held while building

Continuous attendance between Sept. 5, 1941 and February 6th, 1942



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