

# STEEL STEAMER OF MOTORSHIP

Received at London Office 20 JUL 1942

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, 1942

Port of RICHMOND, CALIFORNIA

No. 16

Survey held at RICHMOND, CALIFORNIA

Date First Survey 22nd December, 1941

Last Survey 14th April, 1942

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

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Complete Superstructure, with T.O. closed

State Type of Erections --

TONNAGE under Tonnage Deck 6734.64

CLASS +100 A1 With freeboard, corresponding to a summer mld. draft of 26'10"

Built at RICHMOND, CALIFORNIA

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 416.00

Launched March 15, 1942 Yard No. 16

Total

Breadth (greatest moulded) B 56.90

Builders TODD-CALIFORNIA SHIPBUILDING DIVISION OF THE PERMANENTE METALS CORPORATION

Gross Tonnage 7174.44

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1r) D 37.33

Owners H.M. GOVERNMENT IN THE UNITED KINGDOM

Register Tonnage 4272.08

Depth to 2nd Deck = 28.58 1st Longitudinal Number (L x D) = 15529

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

**REGISTERED DIMENSIONS.**  
FEET.

Length 425.1

2nd Numeral L x (B + D) = 39200

Residence ---

Breadth 57.0

Framing Depth "d," at middle of length. See Sec. 3 (1d) 24.96

Port of Registry LONDON

Depth 34.85

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

Draught Moulded 26.83

on stocks, afloat and in dry dock

## 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.
<b>FRAMES, Spacing amidships</b> .....	30	✓		<b>Bracket Floors, Frame inv. angle</b> .....	6	3 1/2	.38 ✓
" " from 1/2 length amidships to Collision bulkhead.....	27	✓		" " Reversed Frame inv. angle	6	3 1/2	.38 ✓
" " in peaks.....	24	✓		" " Vertical Struts ..... [ 8x3 1/2x3 1/2x.42/.50			.50 ✓
<b>SIDE FRAMING.</b>				<b>Centre Girder, depth and thickness amidships</b>	43.5	x	.54 ✓
<b>Frame Amidships, Angle [ or ]</b> .....	12x4x4x.59/.69	✓		" " top angles Welded top			✓
" " Extends up to .....	2nd deck	✓		" " bottom angles & bottom			✓
<b>Reversed Frame Amidships, Angle</b> .....				<b>Side Girders, No. each side and thickness</b> .....	one		.38 ✓
" " Extends up to...				horizontal width			
<b>Depth of Framing Girder</b> .....	12	✓		<b>Margin Plate depth (ext. of flange) and thickness</b> .....	68	x	.54 ✓
<b>Frames in Uppermost Continuous (tween) Decks, Angle [ or ]</b> .....	6x3 1/2x3 1/2x.34/.38	✓		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem .....			Welded to tank side brackets ✓
" " <b>Second 'tween Decks, Angle [ or ]</b> .....				" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area			✓
" " <b>Third</b> .....				Gussets, spacing and scantling abaft 1/2 len. from stem .....	12	x	.44 continuous ✓
No. 1 Hold (frs. 13-38) from 1/2 len. for'd. to 15% len. from Stem .....	15x3.37x3.37x.52/.62	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area. No. 1. Hold	15	x	.44 continuous ✓
" " <b>No. 2 Hold, as amidships in Peaks, Angle [ or ]</b> .....	8 3 1/2 .34	✓		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	85.5	x	.44 ✓
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b> .....	7/8 @ 6 1/2 dias.	✓		<b>INNER BOTTOM PLATING.</b>			
<b>State if Frame Joggled</b> .....	No	✓		Breadth and thickness of Middle Line Strake ...	60	x	.52 ✓
Are the scantlings and arrangements in the <b>Panting Area</b> 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 <b>Bottom Forward</b> 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 ✓
<b>SINGLE BOTTOM.</b>				<b>BEAMS.</b>			
<b>Floors, Depth and thickness at mid-line in Holds</b> .....				<b>Uppermost Continuous Deck, amidships) Inv. Angle</b> .....	7	4	.38 ✓
Height of Brackets at side above base line at toe of frame .....				" " in way of Bridge, Angle, [ or ] .....			✓
<b>Middle Line Keelson, on Floors, Angles, [ or ]</b> .....				Spacing .....	ev.	fr.	✓
" " Through Plate or Intercostal Plate ...				<b>Second Deck, amidships) inv. Angle, [ or ]</b> .....	8	4	.43 ✓
" " Foundation Plate on Floors .....				Spacing .....	7	4	.38 ✓
" " Flat Plate Keel Angles .....				<b>Third Deck, amidships, Angle, [ or ]</b> .....			✓
<b>Side Keelsons, No. each side</b> .....				Spacing .....			✓
" " thickness of Intercostal Plate...				<b>Fourth Deck, amidships, Angle, [ or ]</b> .....			✓
" " Angles .....				Spacing .....			✓
<b>DOUBLE BOTTOM.</b>				<b>Poop Deck, Angle, [ or ]</b> .....			✓
<b>Solid Floors, thickness and spacing</b> .....	.38 @ 10'	✓		Spacing .....			✓
" " Are Frame and Reversed Frame joggled? .....	No	✓		<b>Bridge Deck, Angle, [ or ]</b> .....			✓
<b>Bracket Floors, breadth and thickness at middle line</b> .....	36 x .38	✓		Spacing .....			✓
" " breadth and thickness at margin plate .....	36 x .38	✓		<b>Forecastle Deck, Angle, [ or ]</b> .....			✓
				Spacing .....			✓



PILLARS AND DECKS.				ANCHORS.			
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				Number of Certificate			
PILLARS, No. of Rows, One in tw. decks only		angle		790		1st Bower ... 7665 lbs.	
in 'tween Decks, Size and Spacing		alt. frs.		778		2nd " ... 7660 "	
" " " " "		" "		776		3rd " ... 15325 "	
" " " " "		" "				Collective weight	
Centre Line Bulkhead, Stiffeners and Spacing		9x7 1/2 x .36 / .57 inv. T angle on alt. frames		Stream		2588 "	
Plating, thickness of		.30		52010 "		1943	
STRINGERS AND DECKS.				WEIGHT OF STOCK			
Uppermost Continuous Deck, Stringer Plate, breadth and thickness				TEST PER CERTIFICATE			
" " " " " in way of Bridge		.62		118580 lbs.		WEIGHT REQUIRED BY TABLE 53.	
" <del>xxxxxx</del> Welded to shearstrake		.62		" "		Description of Anchor.	
Thickness of Plating abreast Deck openings		.62		" "		Makers.	
Thickness of Plating abreast Deck openings in way of Bridge		.40		" "		Where and when tested and Superintendent.	
Thickness of Plating within line of openings		.40		" "		Columbia Steel Co. Pittsburg, Cal. 23 Dec. /41	
If Sheathed, material and thickness		---		" "		Pittsburg, California " 3 Jan. /42	
Third Deck, Stringer Plate, breadth and thickness				" " " " " 9 Dec. /41			
" " " " " in way of Bridge		---					
" <del>xxxxxx</del> Welded to shearstrake		---					
Thickness of Plating abreast Deck openings		.62					
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 way of Bridge		.40					
" <del>xxxxxx</del> Welded to shearstrake		---					
Thickness of Plating abreast Deck openings		.62					
Thickness of Plating abreast Deck openings in way of Bridge		---					
Thickness of Plating within line of openings		.40					
If Sheathed, material and thickness		---					

SCANTLINGS.				RIVETING.			
AS IN VESSEL.				EDGES.			
ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.				State if Joggled?			
FLAT PLATE KEEL				Butt welded			
" DBLG. (if any)				" "			
BOTTOM PLATING, No. of Strakes				" "			
BILGE PLATING, No. of Strakes				" "			
SIDE PLATING, No. of Strakes				" "			
UPPER DECK, Sheer-strake in Wells				" "			
UPPER DECK, Sheer-strake in Bridge				" "			
STRAKE BELOW Sheer-strake in Wells				" "			
STRAKE BELOW Sheer-strake in Bridge				" "			
POOP SIDE PLATING				" "			
BRIDGE SIDE PLATING				" "			
FORECASTLE 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 (Coll. BHD.)				Scantlings			
" Deck next below SEVEN (Inc. D.T. Aft BHD.)				Maker's Name			
As per Rule SEVEN				Any Departure from Approved Plans to be Noted.			
STIFFENERS. <td colspan="4">RUDDER-Type</td>				RUDDER-Type			
Fr. 81				constructed by Bethlehem Steel Co., Leetsdale, Pa.			
MIDSHIP BULKHEAD, Upper tween decks				" A x D			
" " Second		" "		" Diam. of head			
" " Third		" "		" Mainpiece at top pintle			
" " Holds		" "		" " heel			
COLLISION (in Hold)				" how constructed			
AFTER PEAK				" double <del>xxxxxx</del> plate			
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)				" coupling, <del>xxxxxx</del> horizontal			
Bethlehem Steel Co., Columbia Steel Co., Republic Steel Corp., By-Products Steel Corp.				" horizontal			
Has the Steel been tested as required by the Rules?				YES			

EQUIPMENT No 39770				LETTER A				ANCHORS.			
Number of Certificate				Description of Anchor.				Makers.			
790				Baldt Stockless				Columbia Steel Co.			
778				" "				Pittsburg, California			
776				" "				" "			
Stream				" "				" "			
72 lbs short				CHAIN CABLES.				HAWSERS AND WARPS.			
Number of Certificate				Length and size supplied.				Length and size supplied.			
225				2 1/8				120			
225				2 1/8				120			
9893				17 Joining Shackles				2090			
9924				12 2 3/4				2090			
90				5 1/8				2090			
Steering Gear, Type (Power or hand)				Steam, Summer Iron Works				Alternative Means of Steering			
Everett, Wash.				Efficient arrangement of blocks and tackles led to after warping winch							
Steering Chains (Size and Test)				Windlass Steam, Summer Iron Works				Boats			
" "				Everett, Wash.				2 @ 20 x 6.75 x 2.6			
Ceiling in Holds, thickness and material				2 1/2" Pine				1 @ 26 x 8 x 3.25			
Cargo Hatchways—(Upper Deck)				Strong steel plate coamings				1 @ 27 x 8.25 x 3.4—Motor			
Thickness of Hatches				2 3/4" Pine				1 3/4" Pine, 9" Clear			
Size of Hatchways No. 1 (Fwd.)				33'9" x 20'				No. 2 35'x20'			
No. 2				35'x20'				No. 3 15'x20'			
No. 3				15'x20'				No. 4 29'9"x20'			
No. 4				29'9"x20'				No. 5 35'x20'			
No. 5				35'x20'				X.Bkr. 7'6"x20'			
Number of Shifting Beams				No. 1 - 5				No. 2 - 5			
No. 2				5				No. 3 - 2			
No. 3				2				No. 4 - 5			
No. 4				5				No. 5 - 5			
No. 5				5				X.Bkr. - 1			
Builder's Signature				TODD-CALIFORNIA SHIPBUILDING DIVISION				of THE PERMANENTE METALS CORPORATION			

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 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.

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 openings in Tween Deck bulkheads have been closed, in accordance with M.S. Circular 1835.

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		Fees applied for,	
£ 50.00		To be charged	
Special Survey Fee ... £		Received by me,	
£ 2992.50		19	
Travelling Expenses, if any £		19	
I am of opinion the Vessel should be Classed + 100 A1			
With Freeboard corresponding to a summer mld. draft of 26' 10"			
State whether the Vessel has been built under Special Survey ... YES			
Signature J.C. Locke & J. Ramie			
Surveyors to Lloyd's Register of Shipping.			
3/4th Certificate sent to Admiralty			
" Duplicate " New York			
Date of issue 2/9/42			
Committee's Minute NEW YORK JUL 1 1942			
Character assigned + 100 A1 with freeboard			
+ LMC - 4, 42.			
NOTE - ELEC. WELDED, CRUISER STERN. A + C.P. EQUIPT LTR. A +, DF - E.S.D. 3 S.B. (Ckt) 220 Oh 2020 elec. light - C.L.			



**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 sixteenth 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.	Ship Name	Location	Report No.
1	"OCEAN VANGUARD"	Richmond, Calif.	1
2	"VIGIL"	" "	2
3	"VOICE"	" "	3
4	"VENTURE"	" "	4
5	"VIKING"	" "	5
8	"VESTAL"	" "	6
6	"VESPER"	" "	7
7	"VALLEY"	" "	8
9	"VISION"	" "	9
10	"VULCAN"	" "	10
11	"VALOUR"	" "	11
12	"VENUS"	" "	12
13	"VIGOUR"	" "	13
14	"VANITY"	" "	14
15	"VINTAGE"	" "	15

**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	5820 lbs.	H.C.	790,	23rd December, 1941
	2nd "	" "	5800 "	" "	778,	3rd January, 1942
	Stream	" "	1930 ✓	" "	776,	9th December, 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 (Circ. 1611) Over-all Length 441.5 ✓ (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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	135 ✓	361 ✓	Fore peak tank,	22.8	124 ✓
Double bottom, under Engines and Boilers,	45 ✓	212 ✓	After peak tank,	24.9	166 ✓
Double bottom, if under Engines only,	--	--	Deep tank, aft,	20.0 ✓	734 ✓
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 22nd December, 1941 and 14th April, 1942



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Total No. of Visits ✓