

## 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 6734.64  
Tonnage Deck

CLASS +100 A1

With freeboard, corresponding to a summer mld. draft of 26'10"

State if with freeboard

Yes

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 (1c) 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

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

Residence ---

Breadth 57.0

Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.14 ✓

Port of Registry LONDON

Depth 34.85

Do. Long Bridge to top of keel ---

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</b> inv. angle	6 3½ .38 ✓	
" " from ¼ length amidships to Collision bulkhead.....	27 ✓		" " Reversed Frame inv. angle	6 3½ .38 ✓	
" " in peaks.....	24 ✓		" " Vertical Struts	8x3½x3½x.42/.50 ✓	
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	43.5 x .54 ✓	
<b>Frame Amidships, Angle</b> [ or [	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</b> depth (ext. of flange) and thickness	68 x .54 ✓	
<b>Frames in Uppermost Continuous (tween) Decks, Angle</b> [ or [	6x3½x3½x.34/.38 ✓		" " Vertical Angle to Tank side Bracket abaft ½ len. from stem	Welded to tank side brackets ✓	
" " <b>Second 'tween Decks, Angle</b> [ or [	---		" " Vertical Angle to Tank side Bracket from forward ½ len. from stem to Panting Area	---	
" " <b>Third</b>	---		" " Gussets, spacing and scantling abaft plan from stem	12 x .44 continuous ✓	
No. 1 Hold (frs. 13-38) ✓	15x3.37x3.37x.52/.62 ✓		" " No. 1 Hold	---	
from 1 len. for'd. to 15% len. from Stem	---		" " Gussets, spacing and scantling from forward plan from stem to Panting Area. No. 1 Hold	15 x .44 continuous ✓	
No. 2 Hold, as amidships	8 3½ .34 ✓		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	85.5 x .44 ✓	
in Peaks, Angle or [	---		<b>INNER BOTTOM PLATING.</b>		
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b> .....	7/8 @ 6½ dias. ✓		Breadth and thickness of Middle Line Strake	60 x .52 ✓	
<b>State if Frame Joggled</b> .....	No		Thickness of remainder in Holds	.44 ✓	
Are the scantlings and arrangements in the <b>Panting Area</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 ✓	
Are the scantlings and arrangements in way of the <b>Bottom Forward</b> in accordance with the Rules and/or as approved? .....	Yes		<b>BEAMS.</b>		
<b>SINGLE BOTTOM.</b>			<b>Uppermost Continuous Deck, amidships</b>	7 4 .38 ✓	
<b>Floors, Depth and thickness at mid-line in Holds</b> .....	---		Inv. Angle in Wells, Angle [ or [	---	
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 Intercoastal Plate...	---		<b>Second Deck, amidships, Angle, [ or [</b> .....	8 4 .43 ✓	
" " Foundation Plate on Floors	---		Spacing	7 4 .38 ✓	½ beams
" " Flat Plate Keel Angles	---		<b>Third Deck, amidships, Angle, [ or [</b> .....	---	
<b>Side Keelsons, No. each side</b> .....	---		Spacing	---	
" " thickness of Intercoastal 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	---	



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. 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
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 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	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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Foundation

Total No. of Visits ✓