

Rpt. 1.

DISCLOSED  
SECTION  
No. 828NIN NEW GROVE  
STEEL STEAMER OF MOTORSHIP

Received at London Office

DISCLOSED

SECTION

No. 128

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

Port of Portland, Maine New York No. 42307

Date of completion of report

Survey held at Portland, Maine

Date First Survey March 4th, 1941 Last Survey March 14th 1942

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

Steel Single Screw Steamer "OCEAN LIBERTY"

State Type of Erections

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

Complete superstructure with T.O. closed

TONNAGE under 6734.82  
Tonnage DeckCLASS 100A1 (State if with freeboard) Yes  
with Freeboard corresponding to a summer mld. draft 26'-10"

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern } L 416.04  
post on summer L.W.L. See Sec. 3 (1a) }  
416.54 ft. on 26' 10" L.L. mld. 25-34 L.L. mld.

Breadth (greatest moulded) B 56.9

Total

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous } D 37.33

Gross Tonnage 7172.79

Depth to 2nd deck 28.58 ft.

Register Tonnage 4278.03

1st Longitudinal Number (L x D) F.S. Vessel 15531

2nd Numerical L x (B + D) F.S. Vessel 39203

C.S.S. " 38891

Framing Depth "d," at middle of length. See } 24.96

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

Do. Long Bridge to top of keel } x

Draught Moulded } 26.83

Built at Portland, Maine

Launched December 20th, 1941 No. 1

Builders Todd-Bath Iron Shipbuilding Corp.

Owners H. M. Government in United Kingdom.

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

Residence

Port of Registry London

If surveyed while building, afloat, or in dry dock

Builders Building in/drydock and afloat.

## REGISTERED DIMENSIONS.

Length 425'.10

Breadth 57'.0

Depth 34'.85

## 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 ..inv..angle..	6 3 1/2 .38	✓
" " from 1/2 length amidships to } Collision bulkhead.....}	27	✓	" " Reversed Frame .....	6 3 1/2 .38	✓
" " in peaks.....	24	✓	" " Vertical Struts .....	8x3 1/2 x 3 1/2 .42/.50	✓
DE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2" x .54	✓
Frame Amidships, Angle, [ or ]	12x4x4x.59/.69	✓	" " top angles Welded top and bottom angles bottom		✓
" " Extends up to .....	2nd Deck	✓	Side Girders, No. each side and thickness .....	1 @ .38	✓
" " to upper dk. at Hatch ends	12x4x4x.50/.69	✓	Margin Plate depth (excl. of flange) and thickness	68 x .54	✓
Reversed Frame Amidships, Angle .....		not on midship section	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem .....	welded to tank side brackets.	✓
" " Extends up to .....			" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area .....		✓
Depth of Framing Girder.....	12		" " Gussets, spacing and scantling) abaft 1/2 len. from stem .....	12x.44 cont.✓	
Frames in Uppermost Continuous Tween Decks, Angle, [ or ]	6x3 1/2 x 3 1/2 x.34/.38	✓	" " Gussets, spacing and scantling) from forward 1/2 len. from stem to Panting Area .....	15x.44 cont.✓	
Frames in idem-in way No. 1 Hold	7x3 1/2 x 3 1/2 x.35/.50	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	85.5 x .44	✓
" " Second Tween Decks, Angle, [ or ]			INNER BOTTOM PLATING.		
" " Third " " " "			Breadth and thickness of Middle Line Strake ...	60 x .52	✓
" " from 1/2 len. for'd. to 15% len. from Stem (No. 1 Hold; frs. 13 to 33 incl) (No. 2 hold as amidships)	15x3.37x3.37x.52/.62	✓	Thickness of remainder in Holds .....	.44	✓
" " in Peaks, Angle, [ or ]	8 3 1/2 .34	✓	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	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8" @ 6 1/2 diam.	✓	BEAMS.		
State if Frame Joggled .....		✓	Uppermost Continuous Deck, amidships) Inv. angle in way of Bridge, Angle, [ or ]	7 4 .38	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	Yes.	✓	" " in way of Bridge, Angle, [ or ]		✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? .....	Yes.	✓	Spacing .....	every frame	✓
DOUBLE BOTTOM.			Second Deck, amidships) Inv. Outboard Span	8 4 .43	✓
Floors, Depth and thickness at mid-line in Holds .....			Inboard Span	7 4 .38	✓
Height of Brackets at side above base line at toe of frame .....			Spacing .....	every frame	✓
Middle Line Keelson, on Floors, Angles, [ or ]			Second Dk in way Nos. 1 & 2 Tween Dk		✓
" " Through Plate or Intercoastal Plate .....			Third Deck, amidships, Angle, [ or ]	8 4 .50	✓
" " Foundation Plate on Floors .....			Spacing .....		✓
" " Flat Plate Keel Angles			Fourth Deck, amidships, Angle, [ or ]		✓
Keelsons, No. each side .....			Spacing .....		✓
" " thickness of Intercoastal Plate...			Poop Deck, Angle, [ or ]		✓
" " Angles .....			Spacing .....		✓
DOUBLE BOTTOM.			Bridge Deck, Angle, [ or ]		✓
Solid Floors, thickness and spacing	.38 @ 10'	✓	Spacing .....		✓
" " Are Frame and Reversed Frame joggled? .....	No	✓	Forecastle Deck, Angle, [ or ]		✓
Bracket Floors, breadth and thickness at middle line.....	36 x .38	✓	Spacing .....		✓
" " breadth and thickness at margin plate.....	36 x .38	✓			



## 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.
Reinforced hatch side girders and strong hatch end beams in accordance with approved plans. ✓									
<b>PILLARS</b> , No. of Rows....1...in tween decks only.					Stringer Plate, breadth and thickness in way of Bridge .....)				
,, in 'tween Decks, Size and Spacing.....		6	6	.38 angle.	Thickness of Plating abreast Deck openings) .40 ✓				
,, ,, ,, ,, ,,		5	5	.38 angle.	<del>in way of Wells</del> .....)				
,, ,, ,, ,, ,,		alt. frames ↑			Thickness of Plating abreast Deck openings) --				
,, in Holds ,, ,,		not on midch section ↓			in way of Bridge .....)				
,, ,, ,, ,, ,,					Thickness of Plating within line of openings... a				
<b>Centre Line Bulkhead</b> , in holds.		9	7½	x .36/.57 inv. T	If Sheathed, material and thickness .....				
Stiffeners and Spacing...in way shaft tunnel)		7	4	x .38 inv. angle	<b>Third Deck.</b>				
Plating, thickness of .....		.30	✓		Stringer Plate, breadth and thickness .....				
<b>STRINGERS AND DECKS.</b>					<b>Fourth Deck.</b>				
<b>Uppermost Continuous Deck.</b>					Stringer Plate, breadth and thickness .....				
Stringer Plate, breadth and thickness in Wells		66½	x	.62 ✓	If Plated, state thickness.....				
,, ,, ,, ,, in way of Bridge					<b>Poop Deck.</b>				
,, Angle in Wells .....					Stringer Plate, breadth and thickness .....				
Thickness of Plating abreast Deck openings) <del>in way of Wells</del> .....)		.62	✓		Plating, Sheathing, material and thickness .....				
Thickness of Plating abreast Deck openings) in way of Bridge .....		--			<b>Bridge Deck.</b>				
Thickness of Plating within line of openings...		.40	✓		Stringer Plate, breadth and thickness .....				
If Sheathed, material and thickness .....		--			Plating, Sheathing, material and thickness .....				
<b>Second Deck.</b>					<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness in Wells		108	x	.40 ✓	Stringer Plate, breadth and thickness .....				
					Plating, Sheathing, material and thickness .....				

## SHELL PLATING.

[illegible]

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	7 BH (coll 6 Wdk 6 1/2 2nd dk) 6 diagonal WT BHs
Extending to Upper Deck (Sec. 3 c)	Seven ✓ in lower dks
„ Deck next below	One ✓
As per Rule	Seven

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Depart from Approved Plans to be Noted.
KEEL, Bar .....				
STEM Rolled bar .....			10x2 $\frac{1}{2}$ ✓	
upper part steel plate .46				
STERN {	Propeller Post .....	As per approved plan		
FRAME {	<del>Rudder</del> Penn. Steel Castings Co. Ches			
Speed of Vessel .....		Not exceeding 12 knots		State wh
RUDDER—Type .....	Goldschmidt Patent Streamline			
	constructed by Bethlehem Steel			Certifica
	Leetsdale, Pa.			
" A x D .....				
" Diam. of head F.S.S. 9 $\frac{1}{2}$ "		Erie Forge & Steel		Char
" Mainpiece at top pintle		12-3 $\frac{1}{4}$ " ✓		Comm
" " heel ...				
" how constructed .....	All welded	seamless		
lat & double <del>ax</del> single plate	with horizontal	plate		
ox ✓ coupling, vertical or	Horizontal			
horizontal .....				

			Plating Thickness.	STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD,	Upper tween decks		.26	Inv. Angle 5x3x5/16	30"	31½"	--
"	"	Second	--				
"	"	Third	--				
"	"	Holds	Inv. T. .28/	.45, 9x7½x.36/	.57, 30/31½		✓
COLLISION	"	(in Hold)	Inv. Ang. 30/	.42, 6x3½x.38,	24, 1 steel		
AFTER PEAK	"	"	"	.32/	.49, 6x3½x.38,	24½, 2 semi	

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) S. M. Open hearth.

STEEL. Bethlehem Steel Co., Carnegie Illinois Steel Corp., Lukens Steel Co., Phoenix Iron Co.,  
Alan Wood Steel Co., By-Products Steel Co. (Lukens).

Has the Steel been tested as required by the Rules? Yes.



EQUIPMENT No. 39770 ✓				LETTER <b>A</b> <i>a</i> ✓		ANCHORS.	
Number of Certificate.	Anchor.	WEIGHT OF STOCK	WEIGHT OF STOCK	TEST, PER CERTIFICATE	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.
14113	1st Bower ...	7650 ✓	---	118496 ✓	7616 ✓	Baldr Stockless	T.H. Drandolph, Oct. 13, '41.
14205	2nd " ...	7616 ✓	---	117824 ✓	7616 ✓	" "	Baldr Anchor, Chester Pa.
---	3rd " ...	---	---	---	6552	" "	Chain & Forge, " "
---	Collective weight.	15266	---	---	21784 ✓	" "	Company. O. Narbeth, Dec. 4, '41
---	Stream .....	2700 ✓	---	54432 ✓	2660 ✓	" "	" "

CHAIN CABLES.												T. H. Drandolph Oct. 31, '41			
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.	
Length.	Diam.	Length.	Diam.	Stat.	Break.	Supplied.	Per Rule.	Length.	Diam.						
Fathoms.	Ins.	Fathoms.	Ins.	tons.	lbs.	tons.	lbs.	Fathoms.	Ins.						
1215*	225	27 1/16	2 1/8	303320	73135	80724	270	270	2 1/16	C.S. Nat. Malleable & Steel Castings Co.	Sharon, Pa.	Sharon, Pa.	Sharon, Pa.	Oct. 13, '41	A.T. Grimes
Includes 17 joining shackles (cancelled 3 and)															
(17 joining shackles for 3-5/16" diam. cable.		303-424-320 630		1825											
Stream Chain or Steel Wire	90	5-1/8	1 1/8	118272	(6x12)			90	5	(6x12)					

HAWERS AND WARPS.				T. H. Drandolph Oct. 31, '41			
Number of Certificate.	Length and size supplied.	Test per Certificate.	Where and when tested, and Superintendent.	Material.	Length and size supplied.	Breaking Test of Steel Wire.	Length and size per Table 53.
Length.	Diam.	Stat.			Length.	Ins.	Length.
Fathoms.	Ins.	tons.			Fathoms.	Ins.	Fathoms.
1215*	225	27 1/16	Sharon, Pa.	TOWLINE...	120	5-1/8	120
				Oct. 13, '41			
				A.T. Grimes			
				Steel Castings Co.			
				Nat. Malleable & Steel Castings Co.			
				Sharon, Pa.			
				Feb. 6, '42			
				A.T. Grimes			

STEERING GEAR, TYPE (Power or Hand) Steam, Sunner Iron Works, Everett, Washington				Alternative Means of Steering			
Steering Chains (Size and Test)				Windlass Street Bros. Machine Co. Chattanooga, Tennessee			
Ceiling in Holds, thickness and material				Cargo Battens, thickness, material and spacing			
2 1/4" Pine ✓				1-3/4" 9" clear. ✓			
Cargo Hatchways. (Upper Deck) Strong Steel plate coamings				Thickness of Hatches			
Upper Deck				2-3/4" Pine ✓			
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 8'-0"x20'				X Bkr.			
Ext. F.E. 3'-7"x2'-7" 2 Bunker H'ways, 1 Pls each 7'-2"x4'-0" Ext. 2'x2'x1"				APT. END.			
Number of Shifting Beams				No. 1 - 5; No. 2 - 5; No. 3 - 2; No. 4 - 5; No. 5 - 5; Bkr. - 1.			
Upper H'ways							

Builder's Signature				VICE PRESIDENT			
				TODD-BATH IRON SHIPBUILDING CORP.			
				29-9" in Ocean Vessel			

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 satisfactory. ✓

The double bottom, peak, deep and fresh water tanks, decks, 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 Circ. 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. ✓

Amount of Entry Fee	£ 750 @ 4.03 =	Fees applied for, in London	19
Special Survey Fee	£ 3022.50	Received by me,	19
Travelling Expenses, if any	£ 42972.50		
State whether the Vessel has been built under Special Survey			
Certificate to be sent to Bureau London			
Date of issue 29/5/42			
Committee's Minute NEW YORK APR 15 1942			
Character assigned + 100A1 with freeboard			
+ LMC-3, 42.			

NOTE - ELEC. WELD. CRUISER STERN - ATCP. EQUIPT. LTR. - A. - DF. END. 3 S.B. (Ckt) 220 lbs. CL. Elec. light 2021

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 vessel is the 1st of 30 sister ships Nos. 1 to 30 to be built by the Todd-Bath Iron Shipbuilding 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/return as built.

Copy of Interim Certificate B.

Six castings and forging reports, namely: C. S. Stern Frame, Upper Rudder Stock, Rudder,

Rudder Neck Bearings, Quadrant & Tiller, Boat Davits.

Rudder (including intermediate rudder stock and Heel pintle Castings) Rudder neck Bearings, Quadrant & Tiller, Boat Davits.

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 hatch end beams which are riveted. Electrodes, complying with Section 4, paras.1-9, of the Rules, have been employed for manual welding. 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; Lloyd's 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, 6,200 lbs. THD 14113. Oct.13th,1941
	2nd "	Weight of head, 5645 lbs. A.N. 14205. Dec. 4th, 1941.
	Stream	Weight of head 2225 lbs. J.K.H.14117 Oct.13th,1941.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle (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 feet  
(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 Engine & Boiler s coated with 1½" solid cement on bottom of vessel and extending for 3 frame spaces forward of Fore end Boiler Space to frame spaces abaft Aft end Engine Space with bitumastic on other surfaces in these double bottoms Particulars of composition (if fitted) and of approval Bitumastic enamel and solution. (Remainder of D.B.tanks cement washed only; cement at bottom of fore & aft peak tanks, cement in latter spaces, above.)

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 124) in latter spaces, above.) 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,	25	117	After peak tank,	24.9	16
Double bottom, if under Engines only,	--	--	Deep tank, aft,	20	73
Double bottom, under Boilers only, tested.	20	97	Deep tank, forward,	--	--
Double bottom, forward,	188.2	735	Other tanks, if fitted,	--	--
Total length (if continuous) and Capacity	368.2	1310	(If necessary, furnish further information by sketch.)	--	--

Order for Special Survey No.

Date

Dates of Surveys held while building

1941-MAR:- 4,6,7,10,11,12,14,15,17,19,20,21,27,28,29. APR:- 1,2,3,4,7,8,9,10,11,14,15,16,18,19,21,23,25,26,28,29. MAY:- 1,3,5,6,7,8,10,13,14,15,17,19,20,21,22,23,24,26,27,28,29,31. JUNE:- 2,3,4,5,6,7,9,10,11,12,13,14,18,19,20,21,22,23,24,25,26,28,29,30,31. JULY:- 2,3,5,7,8,9,10,11,12,14,15,16,17,18,19,21,22,23,24,25,26,28,29,30,31. AUG:- 1,2,4,5,6,7,8,9,11,12,13,14,15,16,18,19,20,21,22,23,25,26,27,28,29,30,31. SEPT:- 2,3,4,6,7,8,9,10,11,13,15,16,17,18,19,20,22,23,24,26,27,28,29,30. OCT:- 1,2,3,4,6,7,8,9,11,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31. NOV:- 1,3,4,5,6,7,8,9,10,12,13,14,15,17,18,19,21,22,24,25,26,27,28,29,30,31. DEC:- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23,24,26,27,28,29,30,31. FEB:- 1,2,4,9,10,11,12,13,14,15,16,17,18,19,20,22,23,24,26,27,28,29.

Total No. of Visits 46