

STEEL STEAMER or MOTORSHIP.

8 FEB 1943

Received at London Office

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

No. 3458

Date of completion of report 17th December, 1942

Port of Portland, Maine, U.S.A. (N.Yk.) No. 43159

Survey held at So. Portland, Maine

Date First Survey 8th August, 1942

Last Survey 12th November 1942

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

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Complete superstructure with T.O. Closed. State Type of Erections

TONNAGE under 6734.82
Tonnage Deck

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

Total X

Gross Tonnage 7178.42

Register Tonnage 4279.66

REGISTERED DIMENSIONS.
FEET.

Length 425.1

Breadth 57.0

Depth 34.85

CLASS 100A1 with State if with freeboard yes
Freeboard corresponding condition of Classto a summer mld. draft 26'10" FEET.
Length from fore part of stem to after part of stern
post on summer L.W.L. See Sec. 3 (1a) L 416.02 on
416.54 ft. on 26'10" L.L. Mld. 25'3 1/2" L. Mld.
Breadth (greatest moulded) B 56.9Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous
deck. See Sec. 3 (1c) D 37.33Depth to 2nd deck 28'58" feet.
1st Longitudinal Number (L x D) S. Vessel 15531
C.S.S. 152192nd Numeral L x (B + D) S. Vessel 39203
C.S.S. 38891Framing Depth "d," at middle of length. See
Sec. 3 (1d) 24.96Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel 11.14Do. Long Bridge to top
of keel X

Draught Moulded feet 26.83

Built at South Portland, Maine, U.S.A.

Launched 18th October, 1942 No. 28

Builders Todd-Bath Iron Shipbuilding Corp.

Owners H. M. Government in U.K.

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

Residence

Port of Registry

If surveyed while building, afloat, or in dry dock

Building in Builders drydock & 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 INV. ANGLE	6 3/2 .38	/
" " from 1/2 length amidships to } Collision bulkhead.....}	27	/	" " Reversed Frame INV. ANG.	6 3/2 .38	/
" " in peaks.....	24	/	" " Vertical Struts 8x3 1/2 x 3 1/2	x 42 / .50	/
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 x .54	/
Frame Amidships, Angle, [or]	12x4x4x.59 / .69	/	" " top Angles WELDER TOP		/
Extends up to 2nd DECK		/	" " bottom Angles B.O.T.T.O.M.		/
IN UPPER TWIN DECKS TO UPPER DECK H'WAY ENDS	12x4x4x.50 / .69	/	Side Girders, No. each side and thickness	1 @ .38	/
Reversed Frame Amidships, Angle	15x3.37x3.37x.52 / .62	/	Margin Plate depth (excl. of flange) and thickness	6.8 x .54	/
Extends up to		/	" " Vertical Angle to Tank side	WELDED TO TANK	/
Depth of Framing Girder	12	/	Bracket abaft 1/2 len. from stem	SIDE BRACKET	/
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6x3 1/2 x 3 1/2 x .34 / .38	/	" " Vertical Angle to Tank side		/
" " Second 'tween Decks, Angle, [or]		/	Bracket from forward 1/2 len. from stem to Panting Area		/
" " WAY No 1 HOLD	7x3 1/2 x 3 1/2 x .35 / .50	/	Gussets, spacing and scantling abaft 1/2 len. from stem	12 x .44	/
" " Third		/	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	15.5 x .44	/
" " from 1/2 len. for'd. to 15% len. from Stem		/	Tank Side Brackets, height above base line at toe of Frame and thickness	85.5 x .44	/
" " in Peaks, Angle, [8 3/2 .34	/	INNER BOTTOM PLATING.		/
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 @ 6 1/2 DIAM.	/	Breadth and thickness of Middle Line Strake	60 x .52	/
State if Frame Joggled	No	/	Thickness of remainder in Holds	.44	/
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	7 4 .38	/
Floors, Depth and thickness at mid-line in Holds		/	INV. ANG in Wells, Angle, [or]		/
Height of Brackets at side above base line at toe of frame		/	" " in way of Bridge, Angle, [or]		/
Middle Line Keelson, on Floors, Angles, [or]		/	Spacing	EVERY FRAME	/
" " Through Plate or Intercoastal Plate		/	Second Deck, amidships Angle, [or]		/
" " Foundation Plate on Floors		/	" " FRG. 18/35 No 1 HOLD, INBOARD SPAN 8x4x.50		/
" " Flat Plate Keel Angles		/	Spacing	EVERY FRAME	/
Side Keelsons, No. each side		/	Third Deck, amidships, Angle, [or]		/
" " thickness of Intercoastal Plate		/	Spacing		/
" " Angles		/	Fourth Deck, amidships, Angle, [or]		/
DOUBLE BOTTOM.			Spacing		/
Solid Floors, thickness and spacing	.38 @ 10'	/	Poop Deck, Angle, [or]		/
" " Are Frame and Reversed Frame joggled?	No	/	Spacing		/
Bracket Floors, breadth and thickness at middle line	36 x .38	/	Bridge Deck, Angle, [or]		/
" " breadth and thickness at margin plate	36 x .38	/	Spacing		/
			Forecastle Deck, Angle, [or]		/
			Spacing		/

A number of beams were fitted Inv. B.A. 8x3 1/2 x .34

Abreast No. 4 H'way Port fitted 8x3 1/2 x .34

Inv. B.A. with 8x7/16" rider plate on Alt. Beams.

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.									
PILLARS, No. of Rows.....		1 in tween decks only.							
		6	6	.38	angle.				
" in tween Decks, Size and Spacing.....		5	5	.38	"	.40		See also 2nd Deck plan as built.	
" " " " " "						--			
" in Holds " "						.40 &			
" " " " " "						.34			
Centre Line Bulkhead, in holds...		9 X 7 1/2		.36/.57 inv. T.		Third Deck.			
Stiffeners and Spacing in way of Shaft Tunnel		7x4		.38 inv. ang. on alt. frames.		Stringer Plate, breadth and thickness.....			
Plating, thickness of30				If Plated, state thickness.....			
STRINGERS AND DECKS.						Fourth Deck.			
Uppermost Continuous Deck.						Stringer Plate, breadth and thickness.....			
Stringer Plate, breadth and thickness in way of Wells		6 1/2		x .62		See also upper deck plan as built.			
" " " " in way of Bridge				✓		If Plated, state thickness			
" Angle in Wells				✓		Poop Deck.			
						Stringer Plate, breadth and thickness			
Thickness of Plating abreast Deck openings) in way of Wells62		✓		Plating, Sheathing, material and thickness ...			
Thickness of Plating abreast Deck openings) in way of Bridge		--				Bridge Deck.			
						Stringer Plate, breadth and thickness.....			
Thickness of Plating within line of openings...		.40		✓		Plating, Sheathing, material and thickness ...			
If Sheathed, material and thickness		--				Forecastle Deck.			
						Stringer Plate, breadth and thickness.....			
Second Deck.						Plating, Sheathing, material and thickness ...			
Stringer Plate, breadth and thickness in way of Wells		10 1/2		x .42					

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 is the 28th of the 30 ships, Nos.1-30, 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 Section Plan as built.

Copy of Interim Certificate B.

Six castings and forging reports, namely:-

C.S.Stern Frame

Rudder(including intermediate rudder stock and heel pintle castings).

Upper Rudder Stock.

Rudder Neck Bearings.

Quadrant & Tiller.

Boat Davits.

Upper Deck as built (2 plans, 1 forw'd part, 1 aft/

Small scale 2nd Deck as built (shows substitutions and reinforcements, otherwise deck built as per approved plan).

Additional Shell Seams and Butts

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.D.S.

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 5610 lbs. O.N. 26th August,1942,
2nd " Weight of head 5410 lbs. O.N. 26th August,1942.
Stream " Weight of head 1820 lbs. J.K.H. 11th September,1942.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop X ft., R.Q.D. X ft., Bridge X ft., Forecastle X ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated X

Official No.

Signal Letters

Extreme Breadth over Belting NO BELTING
(Circ. 1611)

Over-all Length
(Circ. 1703)

441.5 feet.

No. and Material of Decks

two - steel

D.B.tanks under Engine & Boilers coated with 1½" solid cement on bottom of vessel
Parts of Bottom of Vessel coated with cement or approved composition and extending for 3 frame spaces forward of fore end boiler
spaces to 3 frame spaces abaft aft end engine space with bitumastic on other surfaces in these double
bottoms. Remainder of D.B.Tanks cement washed only; cement at bottom of fore and after Peak Tanks,
cement wash in latter spaces above cement.
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,	25	117	After peak tank,	24.9	166
Double bottom, if under Engines only,	---	---	Deep tank, aft,	20	734
Double bottom, if 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

1942:- AUG:- 8, 19, 25, SEPT: 4, 8, 11, 18, 22, 24, 28,
29, 30, OCT:- 1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15,
16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30,
31, NOV:- 12.

Total No. of Dates:-

40

Total No. of Visits

36