

State if Report is sent on the Machinery of the Vessel.....YES

Port of New York (Boston District) No. 42056

Date First Survey AUG 2-1941 Last Survey JANUARY 6 1942

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

State Type of Erections *P.B., AND F.*

CLASS 100A1

State if with freeboard } **No**
as condition of Class }

Built at QUINCY, MASS.

Length from fore part of stem to after part of stern } L 450 ✓
post on summer L.W.L. See Sec. 3 (1a) }

Launched *DEC 13-1941* Yard No. *1491*

Builders BETHLEHEM STEEL CO

Owners SINCLAIR REFINING CO

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

Residence 630 FIFTH AVE. NEW YORK, N.Y.

Port of Registry WILMINGTON, DEL

If surveyed while building, afloat, or in dry dock

WHITE BUILDING, AFLOAT

		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 <i>LONG FRAMING SEE REPORT #1</i>				Bracket Floors, Frame			
" " from 3 length amidships to Collision bulkhead.....		30" - 24"	✓	" " Reversed Frame			
" " in peaks.....		24"	✓	" " Vertical Struts			
DE FRAMING.				Centre Girder, depth and thickness amidships <i>IN ENGINE ROOM SPACE</i>		60	.53 ✓
Frame Amidships, Angle, [or]				" " top Angles <i>WELDED TO TANK TOP</i>			✓
" " Extends up to				" " bottom Angles <i>WELDED TO KEEL</i>			✓
Reversed Frame Amidships, Angle				Side Girders, No. each side and thickness		3	.46 ✓
" " Extends up to...				Margin Plate depth (excl. of flange) and thickness			
Depth of Framing Girder				" " Vertical Angle to Tank side } Bracket abaft 1/4 len. from stem			
Frames in Uppermost Continuous 'tween } Decks, Angle, [or]				" " Vertical Angle to Tank side } Bracket from forward 1/4 len. from stem to Panting Area			
" " Second 'tween Decks, Angle, [or]				" " Gussets, spacing and scantling } abaft 1/4 len. from stem			
" " Third " " " " " " " "				" " Gussets, spacing and scantling } from forward 1/4 len. from stem to Panting Area			
" from 1/4 len. for'd. to 15% len. from Stem		8 4 .50	✓	Tank Side Brackets, height above base line } at toe of Frame and thickness			
" in Peaks, Angle or [.....				INNER BOTTOM PLATING.			
Diameter and Spacing of Rivets through } Frame and Shell Plating amidships		WELDED	✓	Breath and thickness of Middle Line Strake ...		SEE REPORT #1	✓
State if Frame Joggled		NO	✓	Thickness of remainder in Holds			
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 ?			
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved ?		YES	✓	BEAMS.			
ANGLE BOTTOM.				Uppermost Continuous Deck, amidships } in Wells, Angle, [or]			
Floors, Depth and thickness at mid-line in } Holds				" " in way of Bridge, Angle, [or]			
Height of Brackets at side above base line at toe of frame				Spacing			
Middle Line Keelson, on Floors, Angles, [or]				Second Deck, amidships, Angle, [or]			
" " " Through Plate or Intercoastal Plate ... }				Spacing			
" " " Foundation Plate on Floors				Third Deck, amidships, Angle, [or]			
" " " Flat Plate Keel Angles				Spacing			
Side Keelsons, No. each side				Fourth Deck, amidships, Angle, [or]			
" " thickness of Intercoastal Plate...				Spacing			
" " Angles				Poop Deck, Angle, [or] <i>INVERTED</i> ✓		5 3 1/2 10.4 #	✓
DOUBLE BOTTOM.				Spacing		24" - 28"	✓
Solid Floors, thickness and spacing				Bridge Deck, Angle, [or] <i>INVERTED</i> ✓		5 3 9.8 #	✓
" " Are Frame and Reversed Frame joggled ?				Spacing		28 - 30	✓
Bracket Floors, breadth and thickness at } middle line				Forecastle Deck, Angle, [or] <i>INVERTED</i> ✓		6 4 12.3 #	✓
" " breadth and thickness at } margin plate				Spacing		24	✓

PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.	Stringer Plate, breadth and thickness in way of Bridge	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
in 'tween Decks, Size and Spacing.....					Thickness of Plating abreast Deck openings in way of Wells				
" " " " "					Thickness of Plating abreast Deck openings in way of Bridge				
in Holds " "					Thickness of Plating within line of openings...				
" " " " "					If Sheathed, material and thickness				
WING Centre Line Bulkheads Stiffeners and Spacing.....					Third Deck. Stringer Plate, breadth and thickness.....				
Plating, thickness of40	.56			If Plated, state thickness.....				
STRINGERS AND DECKS. Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells	81	.78			Fourth Deck. Stringer Plate, breadth and thickness.....				
" " " " in way of Bridge	81	.98			If Plated, state thickness				
" Angle in Wells SINGLE VEE WELDED					Poop Deck. Stringer Plate, breadth and thickness	42	.38		see plan
Thickness of Plating abreast Deck openings in way of Wells68	.38		.69 see plan	Plating, Sheathing, material and thickness ...	STEEL	.29		
Thickness of Plating abreast Deck openings in way of Bridge					Bridge Deck. Stringer Plate, breadth and thickness.....	69	.44		
Thickness of Plating within line of openings...	.60	.38			Plating, Sheathing, material and thickness ...	STEEL	.31		
If Sheathed, material and thickness NOT SHEATHED					Forecastle Deck. Stringer Plate, breadth and thickness.....	36-96	.38		
Second Deck. Stringer Plate, breadth and thickness in Wells...					Plating, Sheathing, material and thickness ...	STEEL	.27		

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	84	.80	.80	.80		EDGES OF KEEL,		ALL SHELL BUTTS					
„ DBLG. (if any)	—	—				A.B.C.D AND E AND EDGE OF E STRAKE		DOUBLE VEE AND					
BOTTOM PLATING, No. } of Strakes73	.73	.73		DOUBLE VEE AND WELDED.		WELDED.					
BILGE PLATING, No. of } Strakes73	.58	.58		DOUBLE 7/8 3/8							
SIDE PLATING, No. of } Strakes62	.54	.48		DOUBLE 7/8 3/8							
UPPER DECK, Sheer- } strake in Wells.....	81	.90	.48	.48		DOUBLE 1 1/2							
UPPER DECK, Sheer- } strake in Bridge ...	81	1.10	—	—	.74 see plan	DOUBLE 1 3/4							
STRAKE BELOW Sheer- } strake in Wells.....	72	—	.48	.48		DOUBLE 7/8 3/8							
STRAKE BELOW Sheer- } strake in Bridge51	—	—		AT BREAK TREBLE 7/8 3/4							
POOP SIDE PLATING	96	.37	—	—		SINGLE 3/4 3/8							
BRIDGE SIDE PLATING ...	96	.50	—	—		TREBLE 7/8 3/4							
		.44	—	—		SINGLE 7/8 3 5/16							
FOREC'TLE SIDE PLATING		.44	—	—		SINGLE 3/4 3/8							

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—
 Extending to Upper Deck (Sec. 3 c) **FOURTEEN (14)** ✓
 Deck next below **FOURTEEN**
 As per Rule **AS APPROVED (14) FOURTEEN**

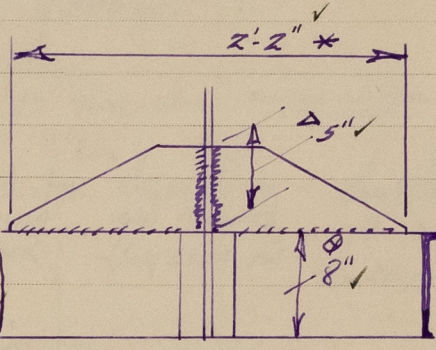
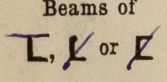
TRANSVERSE MIDSHIP BULKHEADS	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
Upper 'tween decks		52-44	FLUTED 7" 1/2	WEBS	
" Second "		AS APPROVED		36" x .46"	
" Third "					
" Holds					
COLLISION (in Hold)		62-45	4x16x30 #130	TWO DECKS	
AFTER PEAK " "		49-39	3x26x11.7 #130	TWO DECKS	
			4x7x15.8 #130		

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	PLATE			
STEM	LOWER SECTION CAST STEEL			
STERN FRAME { Propeller Post	CAST STEEL FRAME AND CONTRA			
{ Rudder	PROPELLER - FIVE SECTIONS JOINED BY THERMIT WELDS AS APPROVED.			
Speed of Vessel	14 KNOTS			
RUDDER —Type.....	GOLDSCHMIDT "CENTRA GUIDE"			
" A x D	747			
" Diam. of head	14 1/2"			
" Mainpiece at top pintle				
" " heel ...				
" how constructed	WELDED PLATE FRAME			
" double or single plate	DOUBLE (STREAMLINE)			
" coupling, vertical or horizontal.....	HORIZONTAL			

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) **BASIC OPEN HEARTH.**
STEEL. **PLATES BETHLEHEM STEEL CORP. SPARROWS POINT, MO. BETHLEHEM AND JOHNSTOWN, PA.**
 Has the Steel been tested as required by the Rules?

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS.			Any Departure from Approved Plans to be Noted.	RIVETING.				
		In Ship.			In Ship.				Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads.	
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam.	Speng.		Number.	Diameter.
Framing of 													
Frames in Bridge 'tween Decks ...													
Frames from Uppermost Continuous Deck No. 1		8	4	.44	8	4	.44						
" 2		8	4	.44	8	4	.44						
" 3		9	3 1/2	25.4	9	3 1/2	25.4						
" 4		10	3 1/2	28.3	10	3 1/2	28.3						
" 5		10	3 1/2	28.3	10	3 1/2	28.3						
" 6		10	4	30.2	10	4	30.2						
" 7		12	3 1/2	30.9	12	3 1/2	30.9						
" 8		12	3 1/2	32.9	12	3 1/2	32.9						
" 9		13	4	35.0	13	4	35.0						
" 10		13	4	35.0	13	4	35.0						
" 11		15	3 3/8	40.0	15	3 3/8	40.0						
" 12		15	3 3/8	40.0	15	3 3/8	40.0						
13 to 23		18	4	42.7	18	4	42.7						
" 14													
" 15													
" 16													
Spacing of Longitudinal Frames													
Tank Top Longitudinals													
Bottom													
Amidships													
At Ends													
Transverses.													
Side (between Decks)													
Depth and Thickness													
Face Angles													
Lugs to Shell*													
Side (Hold)													
Depth and Thickness													
Face Angles													
Lugs to Shell*													
Bottom													
Depth and Thickness													
Face Angles													
Lugs to Shell*													
Back Bars													
Brackets													
Spacing of Transverse Frames													
State if joggled or liners.													
Longitudinal Beams of 													
Bridge Deck													
Upper													
Second													
Third													

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.

EQUIPMENT No 45931				LETTER C+				ANCHORS.			
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.
14176	1st Bower ...	9600						138544	9415	8624	
14177	2nd „ ...	9600						138544	9415	8624	
14175	3rd „ ...	8100						123200	7980	7336	
	Collective weight.	27300							26810	24584	2193
14174	Stream	3500						67424	3395	3080	

CHAIN CABLES.										HAWSERS AND WARPS.									
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.	Cir.
	Length.	Diam.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.		
9539	300	2 7/16	335	30	106028	99708	300	2 7/16	"Di-Lok" STUD LINK	BALOT ANCHOR AND CHAIN CO. CHESTER, PA.	PHILA, PA. 9-41 T.H. DRANDOLPH	TOWLINE...	120	1 3/4	16000	130	5 1/4		
												HAWSERS & WARPS	200	9"	✓	100	8		
													200	9"		100	8		
													200	9"		100	8		
													200	9"		100	8		
Iron Stream Chain or Steel Wire	120	1 1/2	126000		-	-	120	5	GAL. STEEL WIRE 6x24				200	9"					

Steering Gear, Type (Power or hand) *LINGERWOOD HYDRAULIC-ELECTRIC* Alternative Means of Steering *STEAM WINCH ON DECK*

Steering Chains (Size and Test) *NONE* Windlass *LINGERWOOD STEAM 10"x12" Boats FOUR 26'-0"x9'-0"x3'-8"*

Ceiling in Holds, thickness and material *NONE* Cargo Battens, thickness, material and spacing *FOR'D HOLD 1 3/4"x5 1/2"*

Cargo Hatchways.—(Upper Deck) *STEEL PLATE* Thickness of Hatches *AND 21 CARGO TANK HATCHES 4'-0"x6'-0"x.38"*

Size of Hatchways No. 1 (Fwd.) *9'-8"x17'-0"* No. 2 No. 3 No. 4 No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters *NONE - STEEL COVERS STIFFENED AS APPROVED.*

Bethlehem Steel Company (Shipbuilding Division)
Fore River Yard
Builder's Signature *L. V. Owens*
General Manager

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 *YES*

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *OIL TANKER* 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 BUILT UNDER SPECIAL SURVEY AND ACCORDING TO THE APPROVED PLANS AND RULES OF THE SOCIETY. THE MATERIALS AND WORKMANSHIP ARE GOOD. THE VESSEL IS INTENDED TO CARRY PETROLEUM IN BULK, THE OIL TANKS, FUEL TANKS, COFFERDAMS, PEAK TANKS, AND DOUBLE BOTTOM TANKS HAVE BEEN TESTED AND FOUND SATISFACTORY AND IN ACCORDANCE WITH THE RULES

The amount of Entry Fee \$50.- : Fees applied for, *Jan. 31 1942.* (Special notations, where part of class, to be stated.)

Special Survey Fee... \$2976.37 : Received by me, 19...

Travelling Expenses, if any £ : : 19...

I am of opinion the Vessel should be Classed *+ 100 A1*
CARRYING PETROLEUM IN BULK, PARTIALLY ELECTRICALLY WELDED, LONGITUDINAL FRAMING.

State whether the Vessel has been built under Special Survey..... Signature *P. W. Wilson Jr*
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *New York* Date of issue *1/6/42*

Committee's Minute *NEW YORK JAN 28 1942*

Character assigned *+100 A1*
Carrying Petroleum in bulk
Fitted for oil fuel 1,42 F.P. above 170°F.
+ LMC-1, 42.

NOTE - LONG. FRAMING
PT. ELEC. WELDED, CRUISER STERN
LATCP. - EQUIPT. LTR. CT.
MACH. AFT. - DEF. STD.
2 WTB (C) 100 lbs.
Elec. light. - CL.

015348-015354-00873/3

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. the Plans should be embodied.)

Plans showing Vessel as built should be forwarded and a List of

SISTER VESSEL "SINCLAIR OPALINE"

APPROVED PLANS MIDSHIP SECTION
TRANSVERSE OT BH.
VERTICAL KEEL
TRANSVERSES
LONGITUDINAL OT BH.
SHELL EXPANSION FORD
" " AFT
UPPER DECK PLATING

STEM
PEAK BHDS
STERN FRAME
RUDDER
INNER BOTTOM PLATING
MAIN ENGINE FOUNDATION
POOP DECK PLATING
ENGINE ROOM CASING.

THIS VESSEL IS ALSO CLASSED WITH THE AMERICAN BUREAU OF SHIPPING.

PARTICULARS OF ELECTRIC WELDING (if employed) HULL STRUCTURE ALMOST ENTIRELY WELDED. SIDE SHELL SEAMS, DECK SEAMS, AND TRANSVERSE FRAMES IN PEAKS RIVETED. SHELL SEAMS AND BUTTS DOUBLE VEEED AND WELDED.
ELECTRODES USED:—LINCOLN "FLEETWELD N-5"; HARNISHFEGER "AF" TYPE — MAX DIA 7/32"
STERN FRAME CAST STEEL FIVE PIECES JOINED BY "THERMIT WELDS"

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book CARRYING PETROLEUM IN BULK;
CRUISER STERN; MACHINERY AFT; LONGITUDINAL FRAMING; FITTED FOR FUEL OIL;
LLOYD'S A+C.P.; D.F.; E.S.D.; GYRO COMPASS; PART ELECTRICALLY WELDED.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	6730	THD	14176	14-11-41
	2nd "	6730	THD	14177	14-11-41
	3rd "	5240	THD	14175	14-11-41
	STREAM	2485	THD	14174	14-11-41

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 103 ft., R.Q.D. ft., Bridge 40 ft., Forecastle 36.25 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 241274 Signal Letters KNAP Extreme Breadth over Belting (Circ. 1611) Over-all Length 471.75
No. and Material of Decks ONE STEEL DECK
Parts of Bottom of Vessel coated with cement or approved composition FORE PEAK AND DRINKING WATER TANKS (ON BOILER FLAT) CEMENT.
AFTER PEAK AND INNER BOTTOM TANKS COATED WITH SINCLAIR "NAVY 26"
Particulars of composition (if fitted) and of approval SINCLAIR "NAVY 26"

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, COFFERDAM FR 44-45	41-0"	201	Fore peak tank, FP TO FR. 83	26'-3"	213
Double bottom, under Engines and Boilers, FR 31-34	548'-0"	71	After peak tank, AP TO FR. 11	22'-0"	104
Double bottom, if under Engines only, FR 35-41	5015'-0"	42	Deep tank, aft, FR 42 TO 44 (FUEL OIL)	14'-0"	697
Double bottom, if under Boilers only, FLAT TANKS	10'-0"	50	Deep tank, forward, FR 68 TO 83	13'-0"	336
Double bottom, forward, 31 1/2 35=10', 41 1/2 42=2.5'	12.5'	—	Other tanks, if fitted,	33.75'	—
Total length (if continuous) and Capacity	95.0	71-0'	119		

Order for Special Survey No. 222

Date June 6, 1940

Dates of Surveys held while building

Aug 2. 11. 19. 20. 26 SEPT 8. 16. 20. 24. 29. 30 OCT 3. 6. 8. 9. 10. 11. 15. 16. 17. 20. 23. 25. 27
NOV. 3. 7. 12. 13. 14. 15. 18. 19. 21. 24. 25. 26 DEC 1. 2. 4. 6. 8. 9. 10. 12. 13. 15. 17. 20. 29. 30
JAN 1. 2. 3. 4. 5. 6

Total No. of Visits 56