

REC'D NEW YORK JAN 17 1950

Rpt. 1. **DECLASSIFIED**
SECTION
No. 782**STEEL STEAMER or MOTORSHIP****DECLASSIFIED**
Received at London Office **1 APR 1950**
SECTION
No. 782

State if Report has been sent on the Freeboard of the Vessel.....No

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

Date of completion of report 28th December, 1949 Port of PHILADELPHIA, PA. No. 9401

Survey held at Chester, Pa. Date First Survey 4th August Last Survey 16th December, 1949

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) single screw steamer "SOVAC BRILLIANT"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections P. B. & F.

TONNAGE under 15623.73
Tonnage Deck...}

CLASS *100A1 State if with freeboard as condition of Class

Built at Chester, Pa.

Launched 18th Nov., 1949 Yard No. 573

Builders Sun S.B. & D.D. Co.

Owners Tankers Navigation Co., Inc.

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

Residence 17 Battery Place, N.Y.

Port of Registry Panama R. P.

If surveyed while building, afloat, or in dry dock

Building and Afloat

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

Total 1974.21

Gross Tonnage 17597.94

Register Tonnage 10724

REGISTERED DIMENSIONS.
FEET.

602.2

82.7

42.7

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 600'-0"

Breadth (greatest moulded) B 82'-6"

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 42'-6"

1st Longitudinal Number (L x D) = 25500

2nd Numeral L x (P + D) = 75000

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

Proportions—Depth to Length — Uppermost continuous deck to top of keel 14.1
Do. Long Bridge to top of keel

Draught Moulded 32'-2 15/16" Assigned by A.S.

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.
IS, Spacing amidships Longl. Frames	-		Bracket Floors, Frame	-	
" from 3/8 length amidships to Collision bulkhead	-		" Reversed Frame	-	
" 24" Aft Peak	-		" Vertical Struts	-	
" in peaks 24" Fore Peak	-		Centre Girder, depth and thickness amidships	57"x62" in Eng. Room	
FRAMING. Longitudinal			" top Angles	Welded to Tank Top	
" Amidships, Angle, [or]	-		" bottom Angles	Welded to flat keel	
" Extends up to	-		Side Girders, No. each side and thickness	3 - .50"	
" Framed Frame Amidships, Angle	-		Margin Plate depth (excl. of flange) and thickness	None	
" Extends up to	-		" Vertical Angle to Tank side	-	
" Framing Girder	-		" Bracket abaft 1/4 len. from stem	-	
" in Uppermost Continuous 'tween Decks, Angle [or]	-		" Vertical Angle to Tank side	-	
" Second 'tween Decks, Angle, [or]	-		" Bracket from forward 1/4 len. from stem to Panting Area	-	
" Third " " "	-		" Gussets, spacing and scantling abaft 1/4 len. from stem	-	
" from 1/2 len. for'd. to 15% len. from stem	8" x 4" x .44 above		" Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	-	
" Peak inverted angles	9" x 4" x .44 above		Tank Side Brackets, height above base line at toe of Frame and thickness	-	
" Peak inverted angles	6" x 4" x .44 Above		INNER BOTTOM PLATING.		
" and Spacing of Rivets through Frame	7" x 4" x .44		" Breadth and thickness of Middle Line Strake	.62" (Seams butt welded)	
" and Shell Plating amidships	-		" Thickness of remainder in Holds	-	
" same Joggled	No		" 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	
" scantlings and arrangements in the Area in accordance with the Rules approved?	Yes		BEAMS.		
" scantlings and arrangements in way of the Forward in accordance with the Rules approved?	Yes		" Uppermost Continuous Deck, amidships in Wells, Angle [or]	-	
BOTTOM.			" " in way of Bridge, Angle, [or]	-	
" Depth and thickness at mid-line in Holds	-		" Spacing	-	
" Height of Brackets at side above base line at toe of frame	-		" at ends Toewelded	9" 4" .50	
" Line Keelson, on Floors, Angles, [or]	93" .50" Q Girder		Second Deck, amidships, Angle, [or]	8" 4" .50	
" " Through Plate or Intercoastal Plate	24"x1.00" Rider Plt. on Q Girder (Welded)		" Spacing 30" & 24"	-	
" " Foundation Plate on Floors	-		Third Deck, amidships, Angle, [or]	-	
" " Flat Plate Keel Angles	Q Girder welded to flat keel		" Spacing	-	
" " Gons, No. each side	-		Fourth Deck, amidships, Angle, [or]	-	
" thickness of Intercoastal Plate	-		" Spacing	-	
" Angles	-		" inverted	6" 4" .44	
BOTTOM.			Poop Deck, Angle, [or] Transv. Beams	6" 4" .38" welded	
" " Are Frame and Reversed Frame joggled?	No		" Spacing 28"-29" fwd. of inverted A.P. Bhd.	24" aft of A.P. Bhd.	
" Bracket Floors, breadth and thickness at middle line	-		Bridge Deck, Angle, [or] Longl. Beams	5" 3" .31" welded	
" " breadth and thickness at margin plate	-		" Spacing 30" inverted	-	
			Forecastle Deck, Angle, [or] Transv. Beams	6" 4" .38"	
			" Spacing 24" & 30"	-	

PILLARS AND DECKS.			
	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	
PILLARS, No. of Rows.			Stringer Plate, breadth and thickness in way of Bridge
" 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
" " " " "			Thickness of Plating within line of openings.
" " " " "			If Sheathed, material and thickness.
Wing " " " "			
Center Line Bulkhead, 20'-0" off C	7" to 14"	to welded .30"	Third Deck.
Stiffeners and Spacing, E. & Flg. Plts.			Stringer Plate, breadth and thickness.
Plating, thickness of .44" to .56"			If Plated, state thickness.
STRINGERS AND DECKS.			
Uppermost Continuous Deck.			Fourth Deck.
Stringer Plate, breadth and thickness in Wells	116" x 1.18"		Stringer Plate, breadth and thickness.
" " " " in way of Bridge	116" x 1.42"		If plated, state thickness.
" Angle in Wells	8" x 8" x 1 1/8"	Riveted	Poop Deck.
Thickness of Plating abreast Deck openings in way of Wells	1.18"		Stringer Plate, breadth and thickness.
Thickness of Plating abreast Deck openings in way of Bridge	1.18"		Plating, Sheathing material and thickness.
Thickness of Plating within line of openings.	.91"		
If Sheathed, material and thickness	Unsheathed		Bridge Deck.
Second Deck, at ends only			Stringer Plate, breadth and thickness.
Stringer Plate, breadth and thickness in Wells	48" & 44"	Plated transversely	Plating, Sheathing material and thickness.

EQUIPMENT No.				LETTER		ANCHORS.	
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	Weight Required by Rules.	Description of Anchor.	Makers.
5688	1st Bower.	15599	15599	182784	15530	Stockless	Baldt Anchor Chester, Pa.
5689	2nd "	15623	15623	182784	15530	"	C&F Div. J.K.H. 28.10.48
5690	3rd "	15734	15734	182784	15530	"	"
5691	Stream	46962	46962	100912	46590	"	"

CHAIN CABLES.				HAWERS AND WARPS			
Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE	Length and size supplied.	Breaking Test of Steel Wire.	Length.	Size.
2540	330 2 1/4"	168.168	143732 134200	330 2 1/4"	Cast Steel N.A.C.O.	140 2 1/4"	327000 140 2 1/4"
	120 1 1/2"	As approved	120 1 1/2"	120 1 1/2"	Cast Steel N.A.C.O.	90 1 1/2"	270 9"

Steering Gear, Type (Power or hand) Power (hydro electric) Alternative Means of Steering Hand

Steering Chains (Size and Test) Windlass Steam Boats 4@24" - 31 persons

Ceiling in Holds, thickness and material Cargo Battens, thickness, material and spacing

Cargo Hatchways.—(Upper Deck) Circular steel with hinged steel covers Thickness of Hatches Ewd. dry cargo hatch hinged cover

Size of Hatchways No. 1 (Fwd.) 10'-0" x 20' No. 2 4'-0" No. 3 - No. 4 - No. 5 - No. 6 -

Number of Shifting Beams and/or Fore and Afters

Builder's Signature *John F. ...*

SHELL PLATING.					
SCANTLINGS.					
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.
	AMIDSHIPS.		AFT.		
	Breadth.	Thickness.	Thickness.	Thickness.	
FLAT PLATE KEEL	96"	1.06"	1.06"	1.06"	Riveted Seams
" DBLG. (if any)	None				
BOTTOM PLATING, No. of Strakes 4, p. 2 & 3	90"	1.00"	1.00"	1.00"	
BILGE PLATING, No. of Strakes 2, p. 2 & 3	69 3/4"	1.00"	.68"	.62"	
SIDE PLATING, No. of Strakes 3, p. 2 & 3	83"	.78"	.52"	.52"	
UPPER DECK, Sheer-strake in Wells	90"	.78"	.52"	.52"	
UPPER DECK, Sheer-strake in Bridge	88"	1.25"	.52"	.52"	
STRAKE BELOW SHEER-strake in Wells	96 3/4"	1.01"	.52"	.52"	
STRAKE BELOW SHEER-strake in Bridge	96 3/4"	1.01"	-	1.00"	
POOP SIDE PLATING	102"			1.00"	
BRIDGE SIDE PLATING	89"	.50"	& .68"	at ends	
FORECASTLE SIDE PLATING			.46"		

RIVETING.			
EDGES.			
State if jogged?		BUTTS.	
SINGLE OR DOUBLE	RIVETS.	No. of Rows of Rivets	RIVETS.
Diam.	Spacing, cr. to cr.		Diam.
Inches.	Inches.		Inches.
Butts & seams electrically welded except			
Flat keel, upper & lower seams of bilge and			
Sheerstrake and stringer angle			
Double upper 1 1/8" 3 3/4"			
" lower 1 1/8" 4 1/2" welded			
Welded			
Double 1 1/8" 4 1/2"			
" 1 1/8" 4 1/2"			
Welded			
"			
"			
"			
"			

WATERTIGHT BULKHEADS.			
Total No. of W.T. BULKHEADS in Vessel—			
Extending to Upper Deck (Sec. 3 c) 16 complete transv. O.T. &			
Deck next below W.T. bulkheads			
As per Rule As approved			
STIFFENERS.			
Plating Thickness.	VERTICAL.		HORIZONTAL.
	Scantlings.	Spacing.	Scantlings.
Center tank	44" .56"		7" to 18" inverted 30"
Second Wing	44" .56"		7" to 18" inverted 30"
Third	44" .56"		7" to 18" inverted 30"
Holds	56" .40"	8" x 4" x 44" 30" (to welded)	
To 2nd deck	56" .40"	flanged plates	
COLLISION	50" .60"	10" x 11" x 44" .50" (welded)	
AFTER PEAK			
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open hearth steel			
Carnegie-Illinois Steel Corp., Bethlehem Steel Co., Worth Steel Co., Lukens Steel Co.			
Has the Steel been tested as required by the Rules? Yes			

FORGINGS AND CASTINGS.			
Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	Catg.	Penn Steel	
STEM	"	"	
STERN FRAME	"	"	
Propeller Post	"	"	
Rudder	"	"	
Speed of Vessel	16 knots		
RUDDER—Type	streamlined		
" A x D	4620		
" Diam. of head	Catg. 15"		
" Mainpiece at top pintle	Cast steel frame		
" heel	electrically welded		
" how constructed			
" double or single plate coupling, vertical or horizontal	Double		
	Horizontal		

Amount of Entry Fee \$3500.00 : Fees applied for, 4 Jan. 1950

Special Survey Fee £ : per F.A.G. Received by me,

Travelling Expense, if any £ 146.00 : 19

Whether the Vessel has been built under Special Survey Yes

Certificate to be sent to *NYK.* Date of issue 4/5/50

Committee's Minute NEW YORK MAR 8 - 1950

Character assigned +100A1

Carrying Petroleum in bulk

Fitted for oil fuel 12, 49 F.P. above 100 °F

+LMC-12, 49.

NOTE—ELEC. WELDED—LONG. FRAMING—MCHY. AFT.—D.F.—E.S.D.—SYS.—ZWTB—L.P.—M.T.

Signature *P. Chapman* *Wm. Kennedy*

Surveyors to Lloyd's Register of Shipping.

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 List of the Plans should be embodied.)

This vessel is the fourth of seven sister ships being constructed by the same builders. The working plans are being retained for use in the survey of these vessels. Enclosed herewith, are blue prints of midship section plan and profile and deck plan.

PARTICULARS OF ELECTRIC WELDING (if employed) All welded construction except seams of upper deck "A"

strake to girder, No.1 girder angles to upper deck, outboard seams of "C" and inboard seam of "D" strakes of upper deck plating, upper deck stringer angles, seams of sheer, bilge and flat keel strakes and bottom angles of Nos.1 & 2 bottom shell girders to shell, which are riveted only in way of cargo tanks.

Large sections were prefabricated and welded prior to assembly on ship. Approved welding rods were used in manual welding. Unionmilt approved welding process used else

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Carrying petroleum in bulk.

Longitudinal framing, machinery aft. Fitted for oil fuel 12.49. F.P. above 150° F. Electrically welded, D.F., E.S.D., Gyc.

Particulars of Drop Test of Cast Steel Anchors, viz:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	15599 lbs.	J.K.H.	✓	Cert.No.	15688	28.10.48	Head & Shank Dropped	1
	2nd "	15629	J.K.H.	✓	"	15689	28.10.48	" " " "	"
	3rd "	15734	J.K.H.	✓	"	15690	28.10.48	" " " "	"
	Stream	5993	J.K.H.	✓	"	15691	28.10.48	" " " "	"

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 129'3", R.Q.D. ft., Bridge 38'9", Forecastle 84'3" (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated No

Official No. 1310-F Signal Letters H O T I Extreme Breadth over Belting 82'10" Over-all Length 628'0" (Circ. 1611) (Circ. 1703)

No. and Material of Decks One complete steel

Parts of Bottom of Vessel coated with cement or approved composition Peak tanks only. Cement in bottom (depth of casting).

Particulars of composition (if fitted) and of approval D.B. tanks coated with 2 coats of bitumastic solution. Fresh water tanks cement washed. Fore and aft peak tanks coated with 2 coats of bitumastic 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,			Fore peak tank,	36'0"	413.91
Double bottom, under Engines and Boilers, Aft	94'0"	307.70	After peak tank,	24'0"	151.9
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	42'0"	1379.
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No.

Date

Dates of Surveys held while building

4, 5, 11, 17, 18, 19, 22, 24, 31* August, 1, 6, 7, 15*, 21, 22*, 29*, 30* Sept. 3, 4, 5*, 6*, 7*, 10*, 11*, 12*, 13*, 14*, 17, 18*, 19, 20*, 21*, 24*, 25*, 26*, 27*, 31* October, 1*, 2**, 3*, 7, 8, 18*, 25 November, and 16th Dec., 1949
*Indicated additional visit.

Total No. of Visits 73



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PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.	AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.				
	In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads. Inches.	Rivets in Brackets to Bulkheads.	
	Forward			Aft									Diam.	Speng.		Number.	Diameter.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
anged Plts. XXXXXX inverted																	
ge 'tween Decks ...	L6"	x 4"	.38"	Vertical													
permost Continuous No. 1	L7"	x 4"	.50"	✓													
" 2	L7"	x 4"	.50"	✓													
" 3	L8"	x 4"	.44"	✓													
" 4	L8"	x 4"	.44"	✓													
" 5	FlgPlt 9"	x 4"	.44"	✓													
" 6	" 10"	x 4"	.44"	✓													
" 7	" 10"	x 4"	.50"	✓													
" 8	" 15"	x 4"	.44"	✓													
" 9	" 12"	x 4"	.44"	✓													
" 10	" 12"	x 4"	.50"	✓													
" 11	" 13"	x 4"	.44"	✓													
" 12	" 13"	x 4"	.50"	✓													
" 13	" 14"	x 4"	.44"	✓													
" 14	" 15"	x 4"	.44"	✓													
" 15	" 17"	x 4"	.50"	✓													
" 16	" 17"	x 4"	.50"	✓													
17 to 31 Amidships 30"✓	" 18"	x 5"	.50"	✓													
At Ends 30"✓	34"	at bilge.	✓														
Tank Top Longitudinals																	
Bottom "																	
ngitudinals { Amidships																	
At Ends...																	
ransverses.																	
Depth and Thickness	21"		.50"														
Face Angles	6"	Flg.															
Lugs to Shell*	Welded																
Center Tank	36"		.50"	Wing Tank	36"		.50"										
Depth and Thickness	5"		.50"	FlgPlt.	8"		.56"	FlgPlt.									
Face Angles	Welded																
Lugs to Shell*	Transv to side shell			Welded	Transv to Longl B.												
Depth and Thickness	36"-54"		.50"	36"-51"			.50"	Bottom Transv. Ctr.									
Face Angles	FlgPlt 8"x		.56"	FlgPlt 8"x			.56"	FlgPlt 6"x				.50"	FlgPlt 8x56"				
Lugs to Shell*	Welded		✓	Welded			✓	Welded				✓	Welded				
" , Back Bars ...	86"-96"		.50"	Cont. Web.			✓										
Brackets																	
ransverse Frames																	
if joggled or liners.																	
Bridge Deck ...	L 5"x3"x		.31"	Toe Welded													
XXXXXXX																	
XXXXXXX																	
XXXXXXX																	