

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 **21st March, 1947** Port of **Baltimore, Maryland** No. **8437**Survey held at **Baltimore, Maryland** Date First Survey **9th January, 1947** Last Survey **3rd February, 1947**On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **S.S. "CHELATROS" (ex "Edward K. Collins")**State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **"LIBERTY" EC 2-S-C1** State Type of Erections **Flush Deck**TONNAGE under Tonnage Deck... CLASS **100 A1 contemplated** State if with freeboard as condition of Class **No** Built at **Panama City, Florida**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 417.73** Completed **August, 1944** Yard No. **56**Total Breadth (greatest moulded) **B 56.9** Builders **J. A. Jones Construction**Gross Tonnage **7176** 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 **Kassos Steamship Navigation Co., Ltd.**Register Tonnage **4380** 1st Longitudinal Number (L x D) **15594** Managers **Rethymnia and Kulukundia** (Where necessary to be entered in Reg. Book.)Residence **-**Port of Registry **Syra**

If surveyed while building, afloat, or in dry dock

afloat and in drydock.REGISTERED DIMENSIONS.
FEET.Length **422.8**
Breadth **57.0**
Depth **34.8**CLASS **100 A1 contemplated**
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) **L 417.73**
Breadth (greatest moulded) **B 56.9**
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**
1st Longitudinal Number (L x D) **15594**
2nd Numeral L x (B + D) **39363**
Framing Depth "d," at middle of length. See Sec. 3 (1d) **11.19**
Proportions—Depth to Length—Uppermost continuous deck to top of keel **11.19**
Do. Long Bridge to top of keel **-**
Draught Moulded **-**

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 inverted angle	6 4 .44 ✓	
" " in No. 1 Hold	27 ✓		" " Reversed Frame	6 4 .44 ✓	
" " in peaks	24 ✓		" " Vertical Struts	8x3 1/2 x 22.8 lbs. ✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 .54 ✓	
Frame Amidships, Angle, 6x3 1/2	12x4x4x40 lbs. ✓ Shell Flange Cut ✓		" " top Angles	C. G. welded to flat ✓	
" " Extends up to	2nd Deck ✓		" " bottom Angles	keel and inner bottom ✓	
Reversed Frame Amidships, Angle	-		Side Girders, No. each side and thickness	One .38 ✓	
" " Extends up to	-		Margin Plate depth (excl. of flange) and thickness	.54 Tanktop	
Depth of Framing Girder	-		" " Vertical Angle to Tank side	level to	
Frames in Uppermost Continuous 'tween	6x3 1/2 x 3 1/2 x 18 lbs. ✓		" " Bracket abaft 1/4 len. from stem	ship's side	
Decks, Angle, 6x3 1/2	Shell Flange Cut ✓		" " Vertical Angle to Tank side	Continuous	
" " 'tween Decks, Angle, 6x3 1/2	8x3 1/2 x 21.4 lbs. ✓ Shell Flange Cut ✓		" " Bracket from forward 1/4 len. from stem to Panting Area	12x.44 with 2" flange	
" " Third	Shell Flange Cut ✓		" " Gussets, spacing and scantling	Continuous with 2"	
" " In No. 1 Hold	16x3 1/2 x 23.6 ✓		" " abaft	15"x.44 flange	
" " 'tween Decks, Angle, 6x3 1/2	8 4 19.6 lbs. ✓		" " Gussets, spacing and scantling	8 1/2 .44 ✓	
" " in Peaks, Angle, 6x3 1/2	8 4 17.2 lbs. ✓		" " in No. 1 Hold		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	Welded ✓		" " Tank Side Brackets, height above base line at toe of Frame and thickness		
State if Frame Joggled	No ✓		Frame foot		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	As submitted ✓		INNER BOTTOM PLATING.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	As submitted ✓		Breadth and thickness of Middle Line Strake	60 .52 ✓	
SINGLE BOTTOM.			Thickness of remainder in Holds	52x.44 ✓	
Floors, Depth and thickness at mid-line in Holds	-		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?	As submitted ✓	
Height of Brackets at side above base line at toe of frame	-		BEAMS.		
Middle Line Keelson, on Floors, Angles, C or C	-		Uppermost Continuous Deck, amidships	7 4 .44 ✓	
" " Through Plate or Intercoastal Plate	-		" " in way of Bridge, Angle, C or C	-	
" " Foundation Plate on Floors	-		Spacing	Every frame ✓	
" " Flat Plate Keel Angles	-		Second Deck, amidships, Angle, 6x3 1/2	8 4 .44 ✓	
Side Keelsons, No. each side	-		Spacing	Every frame ✓	
" " thickness of Intercoastal Plate	-		Third Deck, amidships, Angle, C or C	-	
" " Angles	-		Spacing	-	
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, C or C	-	
Solid Floors, thickness and spacing	38 ✓ 90 ✓		Spacing	-	
" " Are Frame and Reversed Frame joggled?	Floors E.W. to shell and inner bottom ✓		Poop Deck, Angle, C or C	-	
Bracket Floors, breadth and thickness at middle line	36 .38 ✓		Spacing	-	
" " breadth and thickness at margin plate	72 .38 ✓		Bridge Deck, Angle, C or C	-	
			Spacing	-	
			Forecastle Deck, Angle, C or C	-	
			Spacing	-	

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.
PILLARS, No. of Rows.....	At centre of hatch end beams		Stringer Plate, breadth and thickness in way of Bridge	-	
" in 'tween Decks, Size and Spacing.....	I 10x 10 x .56		Thickness of Plating abreast Deck openings } in way of Wells .....	.40 ✓ .50 in PIONEER	
" " " " " "	✓		Thickness of Plating abreast Deck openings } in way of Bridge	-	
Scaulkings on an Tank Top Plan in Holds (No. 2 Hold) I	14x 14½ x 87 lbs. at		Thickness of Plating within line of openings..	.34 ✓	
" " " " " "	centre of H. E. beams		If Sheathed, material and thickness.....	-	
Centre Line Bulkhead. Stiffeners and Spacing.....	--		Third Deck. Stringer Plate, breadth and thickness.....	-	
Plating, thickness of.....	--		If Plated, state thickness.....	-	
STRINGERS AND DECKS. Uppermost Continuous Deck.			Fourth Deck. Stringer Plate, breadth and thickness.....	-	
Stringer Plate, breadth and thickness on Wells	54 A ✓ .71 ✓		If plated, state thickness.....	-	
" " " " " in way of Bridge	--		Poop Deck. ✓ Stringer Plate, breadth and thickness.....	-	
" Angle in Wells	Stringer welded to sheer		Plating, Sheathing, material and thickness.....	-	
Thickness of Plating abreast Deck openings } in way of Wells	(.71) ✓ .45 in PIONEER		Bridge Deck. Stringer Plate, breadth and thickness.....	-	
Thickness of Plating abreast Deck openings } in way of Bridge	--		Plating, Sheathing, material and thickness.....	-	
Thickness of Plating within line of openings..	.40 ✓		Forecastle Deck. Stringer Plate, breadth and thickness.....	-	
If Sheathed, material and thickness	None ✓		Plating, Sheathing, material and thickness.....	-	
Second Deck. Stringer Plate, breadth and thickness on Wells	54 ✓ .40 ✓				

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?.....	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.									
FLAT PLATE KEEL .....	.60 ✓	.88 ✓	.88 ✓	.88 ✓		Flush welded ✓				Flush Welded ✓		
" DBLG. (if any)	-	-	-	-									
BOTTOM PLATING, (No. of Strakes A, B, C.....)	3 ✓	.64 ✓	.88 ✓	.75 ✓ .62 ✓		" "	✓	-		" "	✓		
BILGE PLATING, No. of Strakes D.....	1 ✓	.64 ✓	.88 ✓	.58 ✓ .54 ✓		" "	✓	-		" "	✓		
SIDE PLATING, No. of Strakes E, F, G.....	3 ✓	.63 ✓	.88 ✓	.62 ✓		" "	✓	-		" "	✓		
UPPER DECK, Sheer-strake to Walk.....	.84 ✓	.70 ✓	.88 ✓	.45 ✓		" "	✓	-		" "	✓	
UPPER DECK, Sheer-strake in Bridge.....	16 x 3/4 riveted strap fitted along top end of sheerstrake from No. 1 to No. 5 Hatch (P & S)												
STRAKE BELOW Sheer-strake to Walk.....	.81	.63 ✓	.88 ✓	.45 ✓		Flush welded ✓				Flush welded ✓		
STRAKE BELOW Sheer-strake in Bridge.....	-	-	-	-		-	-	-		-	-	-	
POOP SIDE PLATING	-	-	-	-		-	-	-		-	-	-	
BRIDGE SIDE PLATING.....	-	-	-	-		-	-	-		-	-	-	
FORE'C'TLE SIDE PLATING	-	-	-	-		-	-	-		-	-	-	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c).....	7 ✓
“ Deck next below.....	6
As per Rule.....	7

STIFFENERS.

				STIFFENERS.					
				Plating Thickness.	VERTICAL.		HORIZONTAL.		
					Scantlings.	Spacing.	Scantlings.	Spacing.	
MIDSHIP BULKH'D, Upper tween decks				.25	5x3½x	I	✓	✓	
				.28	.31		31		-
"	"	Second	"	-	-		-	-	-
"	"	Third	"	-	-		-	-	-
COLLISION " (in Hold)				.31	15x5½x	I			
				.44	.46		31		2-24"x.40 girders
AFTER PEAK	"	"	"	.38	7 x 4	I			7x4x.38 face bar
				.50	.40		24		2-24x.46 girders
AFTER PEAK				.31	6 x 4	I			8x3½x.38 face bar
				.38	.40		24		

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar	-			
STEM		Plate 10x3 & casting at forefoot		
STERN FRAME	{ Propeller Post { Rudder "	C.S. See plan None		
Speed of Vessel.....				
RUDDER—Type		Built up, stream lined, balanced		
" A × D				
" Diam. of head		C. S. 9½		
" Mainpiece at top pintle		C. S. 12½		
" " heel		10"		
" how constructed.....		Welded plates		
" double or single plate		Double. 43		
" coupling, vertical or horizontal		Horizontal 6-2½ dia. bolts		

STEEL.

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

Has the Steel been tested as required by the Rules? Tested by American Bureau of Shipping

No. 8437 1

EQUIPMENT No.				LETTER A a f				ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK	WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		TRA XXX ^{Wt.}	Cwts.	qrs.	lbs.	XXX XXX XXX	lbs.	XXX lbs.				
PA 10355	1st Bower.....	8 400 ⁴⁵	-	-	-	12	56 90	7616 ✓	Stockless	Baldt	Phila. 9/5/44 J. Murrey	
PA 12770	2nd "	8 400 ⁴⁵	-	-	-	12	56 90		Stockless	Anchor	Phila. 24/7/44 J. Murrey	
PA 25656	3rd "	7 550 ^{64 1/2}	-	-	-	11	73 25		Stockless	Chain	Phila. 23/1/47 E. G. Pyrie	
	Collective Weight.	24 350 ^{217 1/2}						21784 ✓		Forge		
PA 12770	Stream	3 185	-	-	-	6	17 20	2128 ^{EX 5/10/45}	Stockless	Company	Phila. 21/7/44 J. Murrey	

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.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Ins.		Length.	Ins.	Length.	Ins.
	Fathoms	Ins.	Tons.	Poss.	lbs.	lbs.	Fathoms.	Ins.					Fathoms.	Ins.	lbs.	Fathoms.	Ins.		
PO 911	210	2 1/16	243930	✓	52160	60480	270	2"	C.S. Mang. Steel Stud	Pacific Chain Portland, Ore. & Mfg. Co.	26/5/44 A. Elmaun	TOWLINE	130	5	148000	120	4 3/4		
PH 30110	90	2 1/16	243930	✓	22716				C.S. National Marb. Pittsburg	S.L. Steel Cast. Co.	22/1/47 F.L. Fish	HAWSERS & WARPS	2 0	8 1/2	Manilla	2 0	8		
					74876								2 0	7 1/2	Manilla	2 0	7		
Iron Stream Chain or Steel Wire	91	4 1/2	108000	✓	-	-	90	5	6x24 Gal. Flow	John Roeblings	K. Day								
								6x12		Trenton	Phila. 14/4/44								

Steering Gear, Type (Power or hand) Steam Alternative Means of Steering Wire Ropes to Winch

Steering Chains (Size and Test) Telemotor Windlass Steam Boats 4 of steel - 2 have motors

Ceiling in Holds, thickness and material only under hatchways Two layers of 2" pine Cargo Battens, thickness, material and spacing 1 1/2" - wood - 9"

Cargo Hatchways.—(Upper Deck) Built of steel plates and angles Thickness of Hatches 2 3/8

of Hatchways No. 1 (Fwd.) 33'9" x 20' No. 2 35 x 20 No. 3 20 x 20 No. 4 35 x 20 No. 5 35 x 20 No. 6 -

ber of Shifting Beams) 6 in No. 1, 2, 4, & 5; 3 in No. 3

Builder's Signature _____

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. Yes 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 was built under the supervision of and classed by the American Bureau of Shipping. ✓

The scantlings and arrangements have been compared with the submitted plans; and, as far as seen, the workman- and materials are good.

The special survey for classification is practically completed (see Report 8).

Oil can be carried as fuel in Nos. 1, 2, 3, 5, and 6 double bottom tanks and as fuel or cargo in No. 3 deep tank.

Particulars of the equipment were taken from the endorsed American Bureau test certificates on board.

The amount of Entry Fee £ : : Fees applied for, 21st Mar. 1947

Special Survey Fee..... £ 1325.00 : Received by me, - 19

Late Fee 10.00

Travelling Expense, if any £ 14.75 :

Photostats, Telephone, etc. 67.90

I am of opinion the Vessel should be Classed 100 A1 (contemplated)

Signature J. Buchanan Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey. No

Certificate to be sent to Don Agents Date of issue 29/7/49

Committee's Minute NEW YORK MAR 26 1947

Character assigned 100A1 (Class contemplated)

LMC-2, 47. T.S. 1, 47.

NOTE - S.S. PARTLY HELD.

NOTE - ELEC. WELD, CRUISER STERN. GY.C. - E.S.D. - D.F. ELEC. LIGHT. C.L. - 247B-240.264

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.)

The following plans are forwarded.

Stern frame

Rudder and stock

Upper deck, bow to frame 83

Upper deck, frame 83 to stern

Shell expansion, bow to frame 80

Shell expansion, frame 80 to stern

Inner bottom plating, bow to frame 86

Inboard profile and holds

General arrangement, upper and second decks.

The following modifications and reinforcements had been previously carried out.

1. Hatch corners reinforced.
2. There is no recess in sheerstrake at accommodation ladder platform.
3. Welding at upper edges of sheerstrake butts in order.
4. Slats already in bulwark plating at sheerstrake butts and also at lower ends of bulwark butts.
5. Welding at corners of wash ports and scuppers in order.
6. Door openings in recess in sides of deckhouses already reinforced with an angle frame.
7. Slats already cut in bilge keel butts and in way of bilge strake butts.
8. New owners now fitted crack arrestors (16" x 3/4" riveted strap) at top edge of sheerstrake (p & s) from No. 1 to No. 5 Hatch.

PARTICULARS OF ELECTRIC WELDING (if employed)

All connections throughout made with Electric Welding except crack arrestor strap at top edge of sheerstrake which is rivetted.

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

Electric welded, Cruiser stern, Gyro Compass, Echo Sounding Device, Direction Finder.

Particulars of Drop Test of Cast Steel Anchors, viz:—
Weight, Surveyor's Initials,
Number of Certificate, Date
of Test.

1st Bower
2nd "
3rd "

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. — Signal Letters **S W A K** Extreme Breadth over Belting — Over-all Length **441.5'**

No. and Material of Decks **2 decks (Stl)**

Parts of Bottom of Vessel coated with cement or approved composition **Engine Room (No. 4 d.b.) fresh water tank.**

Tank under boilers metallic brown paint U.S. Navy formula No 26 see letter 10.7.47

Particulars of composition (if fitted) and of approval **Bitumastic**

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft, Nos. 5 and 6	135 ✓	368	Fore peak tank,	—	130
Double bottom, under Engines and Boilers,	—	—	After peak tank,	—	152
Double bottom, if under Engines only, P. W. only	30 ✓	136	Deep tank, aft, No. 3	20 ✓	760
Double bottom, if under Boilers only, Dry Tank	20 ✓	—	Deep tank, forward, Nos. 1 and 2	61 ✓	648
Double bottom, forward, Nos. 1, 2 and 3	183 ✓	735	Other tanks, if fitted,	—	—
Total length (if continuous) and Capacity	368	—	(If necessary, furnish further information by sketch.)		

Order for Special Survey No.

Date

Dates of Surveys held while building

1947 - January 9, 13, 16, 17, 18, 21, 22, 23, 28, 29, February 3

Total No. of Visits

11