

STEEL STEAMER or MOTORSHIP.

Received at London Office

29 MAY 1941

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 *16th May 1941.*Port of *Greenock.*No. *21415.*Survey held at *Port Glasgow.*Date First Survey *20th OCTOBER 1939* Last Survey *15th MAY 1941.*On the (State if Machinery fitted Aft and
if Single, Twin or Triple Screw)*Single Sc. Sr. "MICHAEL E"**Michy. Amide.*State Type (Full Sailing, Complete Superstructure
with or without Tonnage Openings)*Comp. Super. with tonnage open aft.*State Type of Erections *✓*TONNAGE under
Tonnage Deck...CLASS *+ 100A1.*State if with freeboard
as condition of Class *YES.*Built at *Port Glasgow.*Do. of space or spaces
between Tonnage Dk.
and Upper Dk.Length from fore part of stem to after part of stern
most on summer L.W.L. See Sec. 3 (1a) *L 415'*Breadth (greatest moulded) *NORMAL. 57.87'*Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous
deck. See Sec. 3 (1c) *D 38.25'*Launched *13th Feb. 1941.* Yard No. *446.*Builders *W. Hamilton & Co. Ltd.*Owners *Bury Hill Ship. Comp. Ltd.*Managers *Rethymnis & Kulukundis.*
(Where necessary to be entered in Reg. Book.)Residence *London.*Port of Registry *London.*

If surveyed while building, afloat, or in dry dock

*While Building & afloat.*Total *7217.40*Gross Tonnage *7627.68*Register Tonnage *5507.89*

REGISTERED DIMENSIONS.

FEET.

Length *421.1*Breadth *60.4*Depth *38.85*Framing Depth "d," at middle of length. See
Sec. 3 (1d) *✓*Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel *10.85*Do. Long Bridge to top
of keel *✓*Draught Moulded *28.0 7/8*

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	28 & 27		Bracket Floors, Frame	LONGITUDINAL FRAMING	
" " from 3/4 length amidships to Collision bulkhead	27		" " Reversed Frame	IN D.B. AS PER REPORT 1*	
" " in peaks	24		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 54	
Frame Amidships, Angle, E or C	12 3 1/2 62		" " top Angles	3 1/2 3 1/2 48	
" " Extends up to	2 nd DECK.	See plan	" " bottom Angles	4 4 56	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	2 @ 50	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	1 @ 44	
Depth of Framing Girder	BULB ANGLE.	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem. PAINTING AREA.	6 1/2 x 6 1/2 45 T. 15. 7/8 RIVETS. 6 1/2 x 4 1/2 45 T. 8. 7/8 RIVETS.	
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	6 3 1/2 30		" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	6 1/2 x 6 1/2 45 T. 18. 7/8 RIVETS.	
" " Second 'tween Decks, Angle, E or C	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	TANK TOP PLATING CARRIED OUT TO FORWARD CONTINUOUS. GUSSET WITH 10. 7/8 RIVETS. IN WAY OF PAINTING AREA.	
" " Third " " " "	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	✓	
" " from 1/2 len. for'd. to 15% len. from Stem	12 3 1/2 62 WITH REV. 5 1/4 x 4 1/4 40 ANGLE 135, 139, 142, 148 & 151.		Tank Side Brackets, height above base line at toe of Frame and thickness	43 1/2 46 44. 6" AT TOP.	
" " in Peaks, Angle or C	8 3 1/2 45 8 x 3 1/2 35		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	7/8 @ 6 1/2 DIA.		Breadth and thickness of Middle Line Strake	84 48	
State if Frame Joggled <i>YES, EXCEPT AT ENDS OF VESSEL.</i>			Thickness of remainder in Holds	42	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and 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 as approved?	YES.		BEAMS.		
ANGLE BOTTOM.			Uppermost Continuous Deck, amidships		
Floors, Depth and thickness at mid-line in Holds	✓		" " in Wells, Angle, E or C		
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, E or C	LONGITUDINAL BEAMS	
Middle Line Keelson, on Floors, Angles, E or C	✓		Spacing	AS PER REPORT 1*	
" " Through Plate or Intercostal Plate	✓		Second Deck, amidships, Angle, E or C		
" " Foundation Plate on Floors	✓		Spacing		
" " Flat Plate Keel Angles	✓		Third Deck, amidships, Angle, E or C		
Side Keelsons, No. each side	✓		Spacing		
" " thickness of Intercostal Plate	✓		Fourth Deck, amidships, Angle, E or C		
" " Angles	✓		Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or C		
Solid Floors, thickness and spacing	44 @ 84 AS PER PLANS.		Spacing		
" " Are Frame and Reversed Frame joggled?	YES.		Bridge Deck, Angle, E or C		
Bracket Floors, breadth and thickness at middle line	36 x 42 FL. 3" ON EVERY FRAME BETW. SOLID FLOORS. IN CONJUNCTION WITH LONG. FRAMING AS PER REPORT 1*		Spacing		
" " breadth and thickness at margin plate			Forecastle Deck, Angle, E 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.....	1 TUBULAR PILLAR		Stringer Plate, breadth and thickness in way of Bridge	✓	
" in 'tween Decks, Size and Spacing....	AT EACH SIDE OF		Thickness of Plating abreast Deck openings) in way of Wells	✓	.26
" " " " "	N ^O 2 & 4 HATCHWAYS		Thickness of Plating abreast Deck openings) in way of Bridge	✓	
" in Holds " "	IN HOLDS & T.W. DR		Thickness of Plating within line of openings...	✓	.33
" " " " "	AS APPROVED.		If Sheathed, material and thickness	✓	
Centre Line Bulkhead,			Third Deck.		
Stiffeners and Spacing	AS PER APPROVED PLAN.		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of {	IN HOLDS .30'		If Plated, state thickness.....	✓	
	IN TWEEEN DR. .26'				
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	83	.66' .55'	If Plated, state thickness	✓	
" " " " in way of Bridge	✓		Poop Deck.		
" Angle in Wells	6 6	'60'	Stringer Plate, breadth and thickness	✓	
Thickness of Plating abreast Deck openings) in way of Wells	✓	.58' .44'	Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings) in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...		.47' .39'	Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness	O.P. 2 1/2 ✓		Plating, Sheathing, material and thickness ...	✓	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	83	.40'	Stringer Plate, breadth and thickness.....	✓	
			Plating, Sheathing, material and thickness ...	✓	

[illegible]

Total No. of W.T. BULKHEADS in Vessel—	6.	In letter attached.
Extending to Upper Deck (Sec. 3 c)	5	
" Deck next below	1.	
As per Rule	7.	

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar			✓	
STEM SHARPED STEEL PLATE .61"				
STERN (Propeller Post			CASEY SHARPED IRON.	

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D.	Upper tween decks	.27	11/4. 6 x 3 x 28	3 1/2 / 16	See plans	✓
"	" Second "	✓				✓
"	" Third "	✓				✓
"	" Holds ..(70)...	.42	2 1/2 12 x 3 1/2 x 50	3 1/2		
COLLISION	(in Hold)56	2 1/2 10 x 3 1/2 x 45	2 1/2	2 5/8 in. box & plank flat.	✓
		.53	2 1/2 10 x 3 1/2 x 45	2 1/2	1 5/8 in. box & access top.	✓
AFTER PEAK	" "					

FRAME	Rudder	AS PER PLAN.
STILL.	PLAN.	STEEL PLATING
Speed of Vessel.....	11 KNOTS.	
RUDDER—Type.....	ORDINARY DOUBLE PLATE.	
" A x D	52 1/2.	
" Diam. of head	2006. 5 1/2 W. BEADWORK 6" O. L.	
" Mainpiece at top pintle	CAST SHAPED	
" " heel	STEEL AS PER W. BEADWORK 6" O. L.	
" how constructed	PLAN.	
" double or single plate	50	
" coupling, vertical or horizontal	HORIZONTAL.	✓

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 35.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts. qrs. lbs.	Cwts. qrs. lbs.	Tons. cwts. qrs. lbs.	Cwts.			
25068	1st Bower ...	68 0 14	STOCKLESS	52 15 2 14	68	AYER'S.	NOT STATED.	L.W. 15.2.40. GREEN.
29653	2nd " ...	68 1 0	"	52 15 2 14	68	"	"	SUND. 2.4.40. NORMAN
	3rd " ...				88 1/2			
					10 1/2			

FRAMING.				AMIDSHIP.			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.	
				Inch.	Inch.	Inch.	Inch.	Inch.	Inch.		Diam. Inch.	Spacing Inch.	Inches.	Number.	Diameter. Inches.	
Framing of L, C or C																
Frames in Bridge 'tween Decks ...																
Frames from Uppermost Continuous Deck No. 1																
" 2																
" 3																
" 4																
" 5																
" 6																
" 7																
" 8																
" 9																
" 10																
" 11																
" 12																
" 13																
" 14																
" 15																
" 16																
Spacing of Longitudinal Frames																
Amidships																
At Ends																

Double Bottoms	Tank Top Longitudinals	8	3	'35	8	3	'35	76	5 1/2	7 RIVETS @ 3 1/2" EACH
Bottom	Bottom	8	3 1/2	'35	8	3 1/2	'35	"	"	SIDE OF FLOOR
Spacing of Longitudinals	Amidships	3 1/2								
	At Ends...				3 1/2	6	23			

Transverses.										Rivets in Lugs to Shell Diam. Spacing.		
Side (in'tween Decks)	Depth and Thickness											
	Face Angles											
	Lugs to Shell*											
Side (in 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 jogged or liners.												
Longitudinal Beams of		Bridge Deck ...		✓				✓		Spacing.		
L, L-E		Upper ..		7	3	34	7	3	34	3 1/2 x 34	12 x 36	11/2 x 48
		Second ..		8	3	35	8	3	35	3 1/2 x 34	19 x 40	10 x 32 x 58
		Third ..		✓			✓			✓		
				10 9 x 32 x 38	12 8 1/2 x 34	14 11 x 36	16 12 x 38	18 14 x 40	20 16 x 42	22 18 x 44	24 20 x 46	

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.

1m, 2, 37. T.

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.

Longitudinal framing at Bottom & at Deck
Arapahoe.

at page. W 195-0202123

Lloyd's Register
Foundation

U195-0202(33)

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.)

Sister Vessel to S. S. "KINGSTON HILL". Grk. 1st E. Rpt. No. 21175.

Plans forwarded as per separate list attached.

Owner's letter forwarded herewith agreeing to the opening of the bulkheads.

Note: This vessel has been built in accordance with the plans approved for a complete superstructure vessel with tonnage opening aft, but under the present emergency conditions the shelter tween deck has been closed, the original tonnage opening hatch being raised in height similar to the cargo hatchways. W.T. bulkheads have been fitted in the tween deck in frames 40, 70, 91 & 145. The hatch beams in shelter deck about $\frac{1}{2}$ length have been reinforced & the sills of Moby. casing doors & companionways increased in height, all as per Foreboard Rpt. C.11 (Contd.) The foreboard is assigned from the shelter dk. As a war emergency measure the equipment of chain cable has been reduced in accordance with London letter M. dated 29.1.40 & the spare lower anchor dispensed with as per London letter dated 22.2.40.

No wood or steel covers fitted in second dk. cargo hatchways.

Butts of stem plates. Frame collars at fore peak flat, oil fuel bunker flat, & tunnel recess top. Stringer plates in peaks & oil fuel bunkers. Bulkhead stiffener brackets

PARTICULARS OF ELECTRIC WELDING (if employed)

to tank top. Middle line bulkhead stiffeners & brackets to tank top. Heels of tubular pillars & doublings to tank top. Hatch corners, hatch coaming stays, bulwark stays, bulkhead frame collar, butts of rider plates, cement bar in tween dk, & ceiling bars in tank top. Pipe tubes thru O.S. cross bunker. Hawse pipe plates. Vent coaming butts. Manhole rings in tank top. Aux. engine seats. Also various minor items.

SPECIAL NOTATIONS:

—Either as part of the vessel's class or for record in the Register Book Longitudinal framing at bottom & at decks. 'Aroform'. Cruiser stern, Lloyd's R.O.C.P. Fitted for oil fuel 5-M F.P. above 150^{ft}. 6 B.H.s. Coll. B.H. to W. dk. 5 B.H. to 2nd dk. 4 divisional W.T. B.H. in tween dk. 1 intermediate B.H. dispensed with.

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

1st Bower	22-3-14 INCL. PINS.	J. D.	2523.	3-1-40.	(SUNDERLAND)
2nd "	13-0-7 "	"	J. D.	2522.	3-1-40 "
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. 168165. Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length (Circ. 1703) 134.5 ft.

No. and Material of Decks 2 B.H.s.

Parts of Bottom of Vessel coated with cement or approved composition Cement in peaks & double bottom tanks except W.4 (O.S.) W.4 tank coated with boiled oil. W.5 tank (F.W.) cement worked.

Particulars of composition (if fitted) and of approval W.1.2.3.6.7 D.B. tanks & peaks coated with 'Bitugrease'. Ridges coated with Bituminous.

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.		SALT. Water Capacity.	Where Fitted.	Length.		SALT. Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	121.33	292.		Fore peak tank,		148.	
Double bottom, under Engines and Boilers,	61.25	243.		After peak tank,		236.	
Double bottom, if under Engines only,		✓		Deep tank, aft,		✓	
Double bottom, if under Boilers only,		✓		Deep tank, forward,		✓	
Double bottom, forward,	170.58	570.		Other tanks, if fitted,			
Total length (if continuous) and Capacity	353.16	1105		(If necessary, furnish further information by sketch.)			

Order for Special Survey No. 3158

Date 13th OCTOBER 1939

Dates of Surveys held while building

(1939) OCT. 20. NOV. 4. 10. DEC. 4. 11. 14. 19. 26. (1940) JAN. 9. 13. 14. 25. 31. FEB. 4. 16. 22. 24. MAR. 4. 12. 19. 24. APR. 5. 10. 24. MAY 2. 13. 15. 22. 31. JUNE 4. 12. 26. JULY 2. 5. 9. 14. 22. AUG. 2. 5. 20. 23. 24. 29. SEPT. 18. 24. OCT. 10. 14. 23. 28. 31. NOV. 14. 18. DEC. 10. 18. 19. 23. 26. 30. (1941) JAN. 3. 8. 12. 13. 14. 15. 20. 24. 30. FEB. 3. 4. 5. 8. 9. 10. 12. 13. MAR. 4. 23. APR. 4. 15. 30. MAY 13. 15. Total No. of Visits 83.