

STEEL STEAMER or MOTORSHIP.

28 AUG 1930

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*Date of completion of report **27 AUG 1930**Port of **NEWCASTLE-ON-TYNE**No. **86122**Survey held at **Garrow-on-Tyne**Date First Survey **30 Sept 1929**Last Survey **14 August 1930**

On the (State if Machinery Fitted Aft and (Single, Twin or Triple Screw)

Single Screw Motor vessel "LUCERNA" machy aft

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

Full scantling oil carrierState Type of Erections **Loop, Bridge & Gcle**

TONNAGE under Tonnage Deck...

6107.97CLASS **+100A1 Carrying petroleum in bulk**State if with freeboard as condition of Class **No**Built at **Garrow-on-Tyne**

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 430.0**Launched **27th May 1930** Yard No. **998**

Total

6107.97Breadth (greatest moulded) **B 56.25**Builders **Palmer's S.B. & F. 6th Ld.**

Gross Tonnage

6555.86Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 32.75**Owners **Lumina S.S.C. Ltd.**

Register Tonnage

3928.101st Longitudinal Number (L x D) **= 14082.5**Managers **H. & G. Moss & Co.**

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

REGISTERED DIMENSIONS. FEET.

Length

430.5Framing Depth "d," at middle of length. See Sec. 3 (1d) **Long framing**

Breadth

56.6Proportions—Depth to Length—Uppermost continuous deck to top of keel **13.13**

Depth

32.9Do. Long Bridge to top of keel **25'-5 3/4"**

Draught Moulded

Residence **Liverpool**Port of Registry **Liverpool**

If surveyed while building, afloat, or in dry dock

Building afloat and in dry dock

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	<i>Longitudinal framing</i>		Bracket Floors, Frame		
" " from 1/2 length to Collision bulkhead.....			" " Reversed Frame.....		
" " <i>aft in peak</i>	24"		" " Vertical Struts.....		
" " <i>fore peak</i>	<i>longitudinal framing</i>		Centre Girder , <i>in E.R.</i> depth and thickness.....	66	50
SIDE FRAMING.			" " top Angles.....	3 1/2	3 1/2 50
Frame Amidships, Angle, [or].....			" " bottom Angles.....	4	4 5 1/8
" " Extends up to.....			Side Girders , No. each side and thickness 3	75	66 40
Reversed Frame Amidships , Angle.....	<i>Longitudinal framing</i>		Margin Plate depth (excl. of flange) and thickness.....	<i>in tank top</i>	
" " Extends up to.....			" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem.....		
Depth of Framing Girder			" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem.....		
Frames in Uppermost Continuous 'tween Decks , Angle, [or].....			" " Gussets, spacing and scantling abaft 1/2 len. from stem.....		
" " Second 'tween Decks , Angle, [or].....			" " Gussets, spacing and scantling forward 1/2 len. from stem.....		
" " Third " " " ".....			Tank Side Brackets , height above base line at toe of Frame and thickness.....		
Framing in Peaks , Angle, [or].....	8 3 1/2 38		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships.....			Breadth and thickness of Middle Line	1 1/2 5 <i>under engines</i>	50 <i>clear of engines</i>
State if Frame Joggled	<i>Yes</i>		Thickness of remainder in Holds.....		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars.....	<i>Long framing as plan</i>		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?.....	<i>Yes + as appd</i>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars.....	<i>Keelsons as plan double riveted frames 3 strakes midship thickness</i>		BEAMS.		
SINGLE BOTTOM. <i>Fore deep tank</i>			Uppermost Continuous Deck , amidships in Wells, Angle, [or].....		
Floors , Depth and thickness at mid-line in 36 40			" " in way of Bridge, Angle, [or].....		
Height of Brackets at side above base line at toe of frame.....	<i>at transverses only and as plan</i>		Spacing.....		
Middle Line Keelson , on Floors, Angles, [or].....			Second Deck , amidships, Angle, [or].....		
" " Through Plate or Intercostal Plate.....	C.L. Bld.		Spacing.....		
" " Foundation Plate on Floors.....			Third Deck , amidships, Angle, [or].....		
" " Flat Plate Keel Angles.....			Spacing.....		
Side Keelsons , No. each side 2			Fourth Deck , amidships, Angle, [or].....		
" " thickness of Intercostal Plate.....	40		Spacing.....		
" " <i>Bull angle</i>	8 3 1/2 40		Poop Deck , Angle, [or].....		
DOUBLE BOTTOM. <i>Engine Space</i>			Spacing.....		
Solid Floors , thickness and spacing.....	40 @ 27"	46 & 50 <i>under engines</i>	Bridge Deck , Angle, [or].....		
" " Are Frame and Reversed Frame joggled?.....	<i>Yes</i>		Spacing.....		
Bracket Floors , breadth and thickness at middle line.....			Forecastle Deck , Angle, [or].....		
" " breadth and thickness at margin plate.....			Spacing.....		

PILLARS AND DECK.		PILLARS AND DECK.	
	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.
PILLARS, No. of Rows.....			
" in 'tween Decks, Size and Spacing.....			
" " " " "			
" in Holds " "			
" " " " "			
Centre Line Bulkhead.			
Stiffeners and Spacing.....			
Plating, thickness of			
STRINGERS AND DECKS.			
Uppermost Continuous Deck.			
Stringer Plate, breadth and thickness in Wells <i>oil</i>			
" " " " in way of Bridge			
" Angle in Wells			
Thickness of Plating abreast Deck openings <i>in oil</i>			
Thickness of Plating abreast Deck openings in way of Bridge			
Thickness of Plating within line of openings...			
If Sheathed, material and thickness			
Second Deck.			
Stringer Plate, breadth and thickness in Wells <i>oil</i>			
Stringer Plate, breadth and thickness 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			
Third Deck.			
Stringer Plate, breadth and thickness.....			
If Plated, state thickness.....			
Fourth Deck.			
Stringer Plate, breadth and thickness.....			
If Plated, state thickness			
Poop Deck.			
Stringer Plate, breadth and thickness			
Plating, Sheathing, material and thickness ..			
Bridge Deck.			
Stringer Plate, breadth and thickness.....			
Plating, Sheathing, material and thickness ..			
Forecastle Deck.			
Stringer Plate, breadth and thickness.....			
Plating, Sheathing, material and thickness ..			

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 <i>A</i>	52	.94	.74	.74		double	1	4	5	1	4½	lapped	
„ DBLG. (if any)									-				
BOTTOM PLATING, No. of Strakes <i>BCDE</i>	2@	.63	.50	.50		double	7/8	3½	4	7/8	3½	lapped	
of Strakes <i>A</i>	2@	.62	.50	.50	3 strakes with midship thickness to collision bulkhead	double	7/8	3½	4	7/8	3½	"	
BILGE PLATING, No. of Strakes <i>one</i>		.62	.50	.50		double	7/8	3½	3	7/8	3½	"	
SIDE PLATING, No. of Strakes <i>3</i>		.60	.46	.46	plating on stern frame increased as rule	double	7/8	3½	5	1	4½	"	
UPPER DECK, Sheer-strake in Wells.....	51	.90	.46	.46		double	1	4		1½	heavy plating	"	
UPPER DECK, Sheer-strake in Bridge ...		1.08				double	1½	heavy plating	4	1	4	"	
STRAKE BELOW Sheer-strake in Wells.....		.80	.46	.46		double	1	4	4	1	4	"	
STRAKE BELOW Sheer-strake in Bridge40		Single	7/8	3½	2	3/4	2 5/8	lapped	
POOP SIDE PLATING42			Single	7/8	3½	2	3/4	2 5/8	"	
BRIDGE SIDE PLATING ...			ends .50			Single	7/8	3½	2	3/4	2 5/8	"	
FOREC'TLE SIDE PLATING			.42			Single	7/8	3½	2	3/4	2 5/8	"	

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
Total No. of W.T. BULKHEADS in Vessel—						
Extending to Upper Deck (Sec. 3 c)			11			
" Deck next below			17			
As per Rule		app ^d . as above				
MIDSHIP BULKH'D, Upper tween decks		in main tanks "34/35"	BA.	6x3x.36	2'-4"	6x3x.45 B.A. 2'-5"
" " Second "		Summer tanks "33"				
" " Third "						B.A.
" " Holds		"50/36"			to	10x3 1/2 x 40 } 2'-6" 7x3x.33 } B.A. 9x3 1/2 x 38 2'-6"
COLLISION " (in Hold)		"50/31"				flat
AFTER PEAK " "		"50/30"		10x3 1/2 x 50 7x3x.32	2'-6"	flat

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat plate			
STEM	Rolled steel bar	10" x 2 7/8"	Lanarkshire	
STERN FRAME {	Propeller Post	Forged	10 1/2" x 8 1/2"	Sunderland Forge
{	Rudder ..	Scrap	9" x 8 1/2"	Sunderland Forge
RUDDER—A x D	522.6			
Speed of Vessel	10 3/4			
RUDDER mainpiece at head ..	wrought steel 11 1/2"	Wm Beardmore & Co		
" " heel ..	8 1/2"	arms by Eld Forge		
" " how constructed	arms shrunk & keyed			
" " double or single plate ..	Single	1.12		
" " 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) *open hearth process*
S. Durham, Bolckow Vaughan, Dorman Long, Consett, Cargo Hat, Pease & Partners
Steel Co of Scotland.
 Has the Steel been tested as required by the Rules? *yes.*

EQUIPMENT No. 39716												LETTER	at	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.	
24546	1st Bower ...	Owts.	qrs.	lbs.	Owts.	qrs.	lbs.	Tons.	owts.	qrs.	lbs.	Owts.	Byers Stockless	W.L. Byers & Co Ltd	Low Walker 29/4/30 A Green	
24551	2nd " ...	75	3	0	Stockless			56	15	0	0	68	"	"	"	
24553	3rd " ...	75	1	14	d°			56	10	0	0	68	"	"	" 13/5/30 "	
	Collective weight.	58	3	0	d°			47	12	2	0	58½	"	"	" 14/5/30 "	
18307	Stream	209	3	14								194½	Rodger Anchor	Kendrick & Mole Cardiff	26/4/30 L.L. Light	
		19	0	0	5	0	0	19	17	2	0	19				

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-ry.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Tons.	Fathoms.
34238	Fathoms. 270	Ins. 2 7/16	Tons. 76.25	Tons. 134.75	Owts. qrs. lbs. 723-3 0	Owts. 720 1/4	Fathoms. 270	Ins. 2 7/16	Slud Link Kendrick & Mole Cardiff 17/4/30			2 light TOYLINE... S. Paul	Fathoms. 120	Ins. 6 SW.	Tons.	Fathoms. 120	Ins. 6 SW.
44511	60	1 7/8	31.0	46.5	53-2-7				" "	" "	" Bradley Heath 7/5/30	HAWSERS & WARPS	180	3 1/2 SW.			
Iron Stream Chain or Steel Wire	90	Cir. 5 S.W.				(see letter)		Cir.					240	8 Manila.			

Steering Gear, Steam *Donkin & Co.* Steering Gear, Hand *Jacks to which*

Boats *2 steel lifeboats 24'*
2 wood " 24'
1 cutter 20'

Steering Chains, Size and Test *—* Windlass *Clarke Chapman*

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

Cargo Hatchways.—(Upper Deck) *7'0" x 4'0" main tanks*
Steel coaming 3'1 1/2 x 3'1 1/2 Summer tanks Thickness of Hatches *.70 plate to main tanks.*
.50 " " Summer tanks.

Size of No. 1 Hatchway (Forward) *9' x 12'* No. 2 *—* No. 3 *—* No. 4 *—* No. 5 *—* No. 6 *—*

Number of Shifting Beams and/or Fore and Afters *plate cover 30 with 5 fore and aft stiffeners 5' x 3' x 40 angles.*

PALMERS SHIPBUILDING & IRON Co., Ltd.,
G. S. Williamson
 Builder's Signature SHIPYARD MANAGER.

GENERAL DECLARATION

This vessel has been built in accordance with the approved plans the Society's Rules and the Committee's instructions. The workmanship and materials are good and to our satisfaction

All cargo tanks, cofferdams, fuel and other oil tanks, ballast and fresh water tanks have been filled with water and tested to rule head. All bulkheads (W.T.) not tested as part of above under pressure have been hose tested. All weather decks have been tested by flooding with hose.

The assigned fireboards have been marked on vessel's sides, verified and cut in. The vessel was examined in drydock previous to completion, bottom cleaned and coated.

All approved plans & print of sections of vessel as built are forwarded herewith.

cl from hullor 8 *ALH*

The amount of Entry Fee £ 10 : 0 : 0 Fees applied for, *87 AUG 1930*

Special Survey Fee.... £ 545 : 17 : 0 Received by me, *4.9.30*

Travelling Expenses, if any £ *—*

I am of opinion the Vessel should be Classed *+100A1*
Carrying petroleum in bulk
notation 'longitudinal framing'

State whether the Vessel has been built under Special Survey *Yes* Signature *Alfred D. Heap*
 Certificate to be sent to *Newcastle* Date of issue *26/9/30* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 5 SEP 1930*

Character assigned *+100A1*
Carryg. Petrol. in Bulk
Lloyd's A.T.C.
Write N.P.C.

+ L.M.C. 8.30 Oil Eng.
2 D.R. 120 lb. C.L.

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RUDDER mainpiece at head ... *mild steel 11 1/2 W-Bardmore & Co.*

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.)

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

1st Bower	wt of head	including pin	51-2-21	G.O.	N ^o 423	29.3.30.
2nd "	" " "	"	52-0-14	G.O.	N ^o 424	29.3.30.
3rd "	" " "	"	39-1-7	M.B.	N ^o 4149	28.4.30.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 110.2 ft., R.Q.D. — ft., Bridge 34.0 ft., Forecastle 43.5 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *Not joined*.

No. and Material of Decks (this information is to be given as it should appear in the Register Book)

2 decks (S.A.)

Official No. 162323 ; Signal Letters

Is bottom of Vessel coated with cement *yes* outside oil if not give spaces

particulars of composition *fillets of cement at seams and butts in oil spaces*

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		149
Double bottom, under Engines <i>and Boiler</i> <i>Fuel cooling water</i>	47.25	132	After peak tank,		91
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Engines only,			Deep tank, forward, <i>oil fuel or ballast</i>	36	410
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 5362

Date 29.8.29

Dates of Surveys held while building

1929
Sep. 30. Oct. 3. 4. 7. 9. 10. 14. 21. 23. 29. Nov. 1. 4. 6. 11. 25. Dec. 4. 13. 17. 30. Jan. 3. 13. 16. 20. 21. 22. 23. 24.
28. Feb. 27. 28. Mar. 3. 4. 5. 6. 7. 10. 11. 12. 13. 14. 17. 18. 19. 20. 21. 25. 26. 27. 28. 31. Apr. 1. 2. 3. 4. 7. 8. 9. 10. 11. 24.
May 2. 7. 23. 26. 27. June 13 Aug. 1. 11. 14.

Total No. of Visits 69.