

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

Port of *Liverpool*

No. 106781

Date First Survey

12/3/35

### Last Survey

10 3 1

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

Steel Trunk. "DUNEDIN STAR"

Machinery amidships

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

Complete Superstructure with Tonnage

State Type of Erections

(Combined file  
and list)

TONNAGE under }  
Tonnage Deck... }

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

Built at Birkenhead

Do. of space or spaces  
between Tonnage Dk.  
and ~~Upper~~ Dk. 123.69

**Length** from fore part of stem to after part of stern }  
post on summer L.W.L. See Sec. 3 (1a) } L 522.42

Launched.....29<sup>th</sup> Oct. 1935 Yard No. 1009

Total *Shelter* / 9197.88

Breadth (greatest moulded) ..... B 70.00

Builders Cammell, Laird & Co. Ltd

Gross Tonnage 11168.12

of beam at side of uppermost continuous deck. See Sec. 3 (1c) .....	D	55.00
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Owners ~~Richard L. L. L.~~

Register Tonnage 6854.8

**1st Longitudinal Number (L x D)..... = 22,463**

Managers ✓

**REGISTERED DIMENSIONS**  
FEET.

**Framing Depth "d,"** at middle of length. See } 14.8  
Sec. 3 (1d) .....

Residence ☒

Length 530.0

**Proportions**—Depth to Length—Uppermost continuous deck to top of keel ..... 10.17

Port of Registry London

Breadth 70.4

Do. Long Bridge to top } 10.4  
of keel }

If surveyed while building, afloat, ~~or~~ in dry do

Depth 32.35

**Draught Moulded** ..... 29-42

✓ 400

## 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.	
<b>FRAMES, Spacing amidships</b>		34	✓	✓		<b>Bracket Floors, Frame</b>		✓		✓	
" " from $\frac{3}{8}$ length to Collision bulkhead		27	✓	✓		" " Reversed Frame		✓		✓	
" " in peaks		24	✓	✓		" " Vertical Struts		✓		✓	
<b>SIDE FRAMING.</b>						<b>Centre Girder, depth and thickness amidships</b>		48½	60	✓	✓
" " 1st Motor Rm.		9x3½x3½x	38	✓	✓	" " top Angles		3½	56	✓	✓
<b>Frame Amidships, Angle, [ or ]</b>		9x3½x3½x	44	✓	✓	" " bottom Angles		5	56	✓	✓
" " Extends up to		Bridge Dk. alt.	38	✓	✓	<b>Side Girders, No. each side and thickness</b>		2	44	✓	✓
<b>Reversed Frame Amidships, Angle in No. 3 Hold</b>		4	3½	38	✓	<b>Margin Plate depth (excl. of flange) and thickness</b>		42	62	✓	✓
" " in alt. frames to 4th Dk.		3½	44	✓	✓	" " Vertical Angle to Tank side		5	5	48	✓
" " Extends up to						" " Bracket abaft ½ len. from stem		5	5	48	✓
<b>Depth of Framing Girder</b>		9½	✓	✓		" " Vertical Angle to Tank side		3½	3½	48	✓
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]</b>		see above	✓	✓		" " Gussets, spacing and scantling		21	48	✓	✓
" " Second 'tween Decks, Angle, [ or ]						" " Gussets, spacing and scantling		31	48	✓	✓
" " Third " " " "						<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>		48½	48	✓	✓
<b>Framing in Peaks, Angle or [</b>		9	3½	42	✓	<b>INNER BOTTOM PLATING.</b>					
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>		7/8	5½	✓	✓	Breadth and thickness of Middle Line Strake		58	62	✓	✓
<b>State if Frame Joggled</b>		yes	✓	✓		Thickness of remainder in Holds		52		✓	✓
<b>PANTING ARRANGEMENTS (Sec. 7), state system and particulars</b>		web frames and panting stringers as approved.	✓	✓		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. <del>3</del> space and framing in Bunkers and Boiler Room?		yes		✓	✓
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b>		web frames and panting stringers as approved.	✓	✓		<b>BEAMS.</b>					
<b>SINGLE BOTTOM.</b>		Three strakes of bottom plating	✓	✓		<b>Uppermost Continuous Deck amidships</b>		8x3½x3½x	59	✓	✓
Floors, Depth and thickness at mid-line in Holds		See plans				" " in Wells, Angle, [ or ]		10x3½x3½x	58	✓	✓
Height of Brackets at side above base line at toe of frame						" " in way of Bridge, Angle, [ or ]		10x3½x3½x	58	✓	✓
<b>Middle Line Keelson, on Floors, Angles, [ or ]</b>						Spacing		34		✓	✓
" " Through Plate or Intercoastal Plate						<b>Second Deck, amidships, Angle, [ or ]</b>		10x3½x3½x	40	✓	✓
" " Foundation Plate on Floors						" " at 22'9" span		10x3½x3½x	40	✓	✓
" " Flat Plate Keel Angles						Spacing		34		✓	✓
<b>Side Keelsons, No. each side</b>						<b>Third Deck, amidships, Angle, [ or ]</b>		10x3½x3½x	40	✓	✓
" " thickness of Intercoastal Plate						" " at 22'9" span		10x3½x3½x	40	✓	✓
" " Angles						Spacing		34		✓	✓
<b>DOUBLE BOTTOM.</b>						<b>Fourth Deck, amidships, Angle, [ or ]</b>		10x3½x3½x	40	✓	✓
<b>Solid Floors, thickness and spacing</b>		48 every frame	✓	✓		Spacing		34		✓	✓
" " Are Frame and Reversed Frame joggled?		yes	✓	✓		<b>Poop Deck, Angle, [ or ]</b>		9x3½x3½x	40	✓	✓
<b>Bracket Floors, breadth and thickness at middle line</b>		✓	✓	✓		Spacing		see above		✓	✓
" " breadth and thickness at margin plate		✓	✓	✓		<b>Bridge Deck, Angle, [ or ]</b>		8x3½x3½x	59	✓	✓
						Spacing		34		✓	✓
						<b>Forecastle Deck, Angle, [ or ]</b>		10x3½x3½x	40	✓	✓
						Spacing		see above		✓	✓



## 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.
<b>PILLARS, No. of Rows.....</b>	2	✓	✓	Stringer Plate, breadth and thickness in way of Bridge .....	49 1/2	42	+9" 5/8
" in 'tween Decks, Size and Spacing .....	tabular	✓	✓	Thickness of Plating abreast Deck openings in way of Wells .....	44	✓	✓
" " " " " "	pillars and bulkheads	✓	✓	Thickness of Plating abreast Deck openings in way of Bridge .....	38	✓	✓
" in Holds " " " "	of killed metal plates	✓	✓	Thickness of Plating within line of openings...	34 + 44	✓	✓
" " " " " "	as approved.	✓	✓	If Sheathed, material and thickness .....	✓	✓	✓
<b>Centre Line Bulkhead.</b>				<b>Third Deck.</b>			
Stiffeners and Spacing .....	✓	✓	✓	Stringer Plate, breadth and thickness .....	58 1/2	34	✓
Plating, thickness of .....	✓	✓	✓	If Plated, state thickness .....	30	✓	✓
<b>STRINGERS AND DECKS.</b>				<b>Fourth Deck.</b>			
<b>Uppermost Continuous Deck.</b>				Stringer Plate, breadth and thickness .....	59	34	✓
Stringer Plate, breadth and thickness in Wells	68	98	✓	If Plated, state thickness .....	30	✓	✓
" " " " in way of Bridge	74	48	✓	<b>Poop Deck.</b>			
" Angle in Wells .....	6	6	86/70	Stringer Plate, breadth and thickness .....	40	✓	✓
Thickness of Plating abreast Deck openings in way of Wells .....	75 fwd.	✓	✓	Plating, Sheathing, material and thickness ..	36	✓	✓
Thickness of Plating abreast Deck openings in way of Bridge .....	70 aft	✓	✓	<b>Bridge Deck.</b>			
Thickness of Plating within line of openings...	44	✓	✓	Stringer Plate, breadth and thickness .....	74	57	✓
If Sheathed, material and thickness in fwd. well	2 1/2 P.P.	✓	✓	Plating, Sheathing, material and thickness ..	53	✓	✓
<b>Second Deck.</b>				<b>Forecastle Deck.</b>			
Stringer Plate, breadth and thickness in Wells...	54	78	✓	Stringer Plate, breadth and thickness .....	40	✓	✓
				Plating, Sheathing, material and thickness ..	36	✓	✓

## SHELL PLATING.

SCANTLINGS.						RIVETING.										
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>no</i>			BUTTS.							
	AMIDSHIPS.		FORWARD.	AFT.		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 .....	59	.94	.84	.84	✓	✓	D.R.	1 1/8	4 1/4	✓	5	✓	1 1/8	5	✓	Lapped
„ DBLG. (if any)	✓	1 1/8 in way of keel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BOTTOM PLATING, No. of Strakes .... 4.....	A 78 B 78 C 78	.73	.80	.56	✓	✓	D.R.	1	3 7/8	✓	4	✓	1	4	✓	Lapped
BILGE PLATING, No. of Strakes ..... 2.....	E 78 1/2 F 72	.78	.56	.56	✓	✓	D.R.	1	3 7/8	✓	4	✓	1	4	✓	"
SIDE PLATING, No. of Strakes ..... 5.....	G 71 H 71 J 71 K 71 L 71	.81 .71 .71 .71 .71	.52	.52	✓	✓	G. D.R. D.R.	1 7/8	3 7/8 3 5/8	✓	4	✓	1 7/8	4 3 1/2	✓	"
UPPER DECK, Sheer-strake in Wells.....	M 72	.93	.52	.52	✓	✓ + .05	D.R.	1	3 7/8	✓	5	✓	1	4 1/2	✓	"
UPPER DECK, Sheer-strake in Bridge ...	72	.71			✓	✓	D.R.	7/8	3 5/8	✓	4	✓	7/8	3 1/2	✓	"
STRAKE BELOW Sheer-strake in Wells.....	N 72	.83	.52	.52	✓	✓ + .05	D.R.	1	3 7/8	✓	4	✓	1	4 1/2	✓	"
STRAKE BELOW Sheer-strake in Bridge ...	72	.71			✓	✓	D.R.	7/8	3 5/8	✓	4	✓	7/8	3 1/2	✓	"
POOP SIDE PLATING .....		.44			✓	✓	S.R.	3/4	3	✓	2	✓	3/4	2 5/8	✓	"
BRIDGE SIDE PLATING ...		.69			✓	✓ + .05	D.R.	7/8	3 5/8	✓	4	✓	7/8	3 1/2	✓	"
FORECASTLE SIDE PLATING		.46			✓	✓	S.R.	3/4	3	✓	2	✓	3/4	2 5/8	✓	"

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>	
Extending to Upper Deck (Sec. 3 c)	1
" Deck next below	7
As per Rule	8

## STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKHEAD, Upper tween decks</b>	✓	✓	✓	✓	✓
" " Second "	26	4 1/2 x 3 x 340A	30	✓	✓
" " Third "	30	5 1/2 x 3 x 340A	30	✓	✓
" " Holds .....	33	9 x 3 1/2 x 3 1/2 x 59	30	✓	✓
<b>COLLISION</b> " (in Hold) .....	38, 41	12 x 3 1/2 x 450A	24	✓	✓
<b>AFTER PEAK</b> " " .....	44, 58	4 1/2 x 3 x 340A	30	✓	✓
	26, 30	4 1/2 x 3 x 340A	30	✓	✓
	32, 34, 37	10 1/2 x 6 x 520A	24	✓	✓
	40, 52	11 x 3 1/2 x 500A	24	✓	✓

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> .....	✓	✓	✓	✓
<b>STEM</b> .....	✓	✓	✓	✓
<b>STERN FRAME</b> { Propeller Post .....	✓	✓	✓	✓
{ Rudder " .....	✓	✓	✓	✓
<b>Speed of Vessel</b> .....	16 knots	✓	✓	✓
<b>RUDDER—Type</b> .....	Rudderhead	✓	✓	✓
" A x D .....	forged in got	✓	✓	✓
" Diam. of head .....	steel, rudder	✓	✓	✓
" Mainpiece at top pintle .....	frame cast	✓	✓	✓
" " heel .....	mid steel	✓	✓	✓
" how constructed .....	plated cast	✓	✓	✓
" double or single plate .....	side of frame	✓	✓	✓
" coupling, vertical or horizontal .....	coupling	✓	✓	✓

## STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Siemens-Martin Basic Open Hearth Process. Corbitt Iron Co. Ltd., The British*  
*(Bessemer, Keen, Baldwin) Iron & Steel Co. Ltd., Dorman Long & Co. Ltd., Colvilles & Co. Ltd., Skinningrove Iron Co. Ltd., Cragg & Steel*  
*Iron Co. Ltd., Steel Co. of Scotland, Appleby & Hodgkinson Steel Co. Ltd., Scottish Iron & Steel Co. Ltd., South Durham*  
 Has the Steel been tested as required by the Rules? *Yes.* *Steel & Iron Co. Ltd., The Lancashire Steel Co. Ltd.*







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.)

Forging reports (9 in number) for stem, rudder quadrant, tiller, rudder bearings, rudder head and frame, sternframe, propeller brackets, eye plates. Vessel fitted for carrying refrigerated cargoes in holds and tween decks. List of approved Plans.—Midship Section, Longitudinal Section, Construction Deck Plans (2 in No.), Shell Doublings at Breaks, Sternframe and Propeller boxes, Rudder, Cast Steel Forefoot, Pillars and Girders (2 in No.), Oil Fuel Bunkers between and at sides of Tunnels, Hatch Plans (2 in number), Multiple Riveting for Decks, Casing Beanklings (2 in No.), Typical Gastight Bulkhead, Arrgt. of Lifting Hatch webs, Beanklings of Boat Dk. and Deckhouses, Attachment of stringer plates to shell plating, Welding Details Floors and Tunnel Sides, Engine Girders, After end Framing, Multiple Riveting for Tank Top, Modifications to Fore Peak Tanks, Tiller and Quadrant (2 in No.). Amended profile plan showing modified position of Tonnage Opening, modified pillars and girders in Refrigerating Machinery Space, Prop. Front, Bridge front, bridge end and tonnage bulkheads, and supports and chocks for starting air tanks.

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

4<sup>th</sup> Dk (Stl-weather deck ft. 15) 3<sup>rd</sup> Dk omitted in No. 1 Hold. Direction Finding Apparatus, Echo Sounding Device, Gyro Compass, Cruiser Stern, Dist. Keel forward of machinery space (200'-10").

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

1st Bower 61 wt. 290.7 lb., N.S. N° 945, 1/7/35  
2nd " 62 " 2 " 27 " , N.S. N° 947, 1/7/35  
3rd " 62 " 3 " 4 " , N.S. N° 946 1/7/35

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 83 ft., R.Q.D. ✓ ft., Bridge 201 ft., Forecastle 70 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

No. and Material of Decks 1<sup>st</sup> Dk + Shelter Dk 3<sup>rd</sup> Dk except in No. 1 Hold, 4<sup>th</sup> Dk fwd of hdy space. Four decks steel, 3<sup>rd</sup> deck not fitted in No. 1 Hold. Weather deck wood sheathed in forward well.

Official No. 164578. Signal Letters MPMY. Is bottom of vessel coated with cement pt. com. if not give particulars of composition K D

### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	62.33	91.0	Fore peak tank,	28.0	116
Double bottom, under Engines and Boilers,	76.5	369.0	After peak tank,	21.83	166
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	8.5	478
Double bottom, forward,	240.25	887.0	Oil Fuel Tanker amidships	116.16	331
Total capacity of double bottom	379.08	1347.0	Other tanks, if fitted, Oil Fuel Tanks Centre	104.83	1074
			(If necessary, furnish further information by sketch.) Sides.		

\* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 1290.

Date 20/8/35.

Dates of Surveys held while building

1935. Mar 12. 21. 27. 29. Apr 1. 2. 10. 16. 17. May 2. 8. 15. 20. 21. 24. 28. 29. June 3. 5. 11. 13. 17. 19. 24. 25. July 3. 9. 12. 15. 18. 19. 22. 23. 24. 25. 26. 30. 31. Aug 1. 12. 13. 15. 19. 22. 26. 27. 28. Sept 2. 3. 4. 5. 9. 10. 11. 12. 13. 16. 17. 18. 19. 20. 23. 24. 25. 26. 27. 28. Oct 2. 2. 3. 4. 7. 9. 11. 14. 16. 17. 18. 21. 22. 24. 28. 29. 30. Nov 1. 4. 5. 7. 8. 13. 20. 25. 27. Dec 4. 5. 6. 9. 10. 12. 17. 31. 1936. Jan 3. 6. 7. 10. 13. 14. 15. 17. 20. 21. 22. 23. 27. 31.

Total No. of Visits 119.