

State if Report has been sent on the Freeboard of the Vessel.....*Yes*.....

State if Report is sent on the Machinery of the Vessel. from time

Date of completion of report 25 January 1943 Port of Sunderland No. 33571

Survey held at Sunderland Date First Survey 7th April Last Survey 29th December 1942

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

State Type (Full Spanning, Complete Superstructure with or without Tonnage Openings) Full Spanning State Type of Erections

TONNAGE under } 8894.78 CLASS +100A.1 State if with freeboard } No. Built at Sundeland
Tonnage Deck ... as condition of Class } FEET

Do. of space or spaces between Tonnage Dk. and Upper Dk. } Length from fore part of stem to after part of stern } L 476'-4¹/₂" Launched 26.9.42. Yard No. 175
post on summer L.W.L. See Sec. 3 (1a) } B 68'-0" Builders Sig. Laing & Son Ltd.
Breadth (greatest moulded) }

Total ✓ Depth, at middle of length from top of keel to top of beam at side of uppermost continuous D 36'-0" Owners Ministry of War Transport

Gross Tonnage 9795.36 deck. See Sec. 3 (1c) ✓
 1st Longitudinal Number (L × D) = ✓
 Net Tonnage 5784.15 ✓
 Managers Coast Line Ltd.
 (Where necessary to be entered in Reg. Book)

2nd Numeral $L \times (B + D) \dots\dots\dots =$ _____

REGISTERED DIMENSIONS.

FEET

18 00

Sec. 3 (1d).....

Proportions—Depth to Length—Uppermost con-.....

✓

Port of Registry..... Sunderland

Length 484.00 Continuous deck to top of keel
 Breadth 68.30 Do. Long Bridge to }
 If surveyed while building, afloat, ~~or in dry dock~~ ✓

Depth 36.15 Draught Moulded 28-02 YES

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	✓		Bracket Floors, Frame	✓	
" " from $\frac{3}{8}$ length amidships to Collision bulkhead.....	✓		" " Reversed Frame.....	✓	
" " in peaks	24" x 21" ✓		" " Vertical Struts	✓	
SIDE FRAMING. Longitudinal.			Centre Girder, depth and thickness amidships 79 x 46 x 50 ✓		
Frame Amidships, Angle, [or [.....	✓		" " top Angles	32 x 32 x 7/16 ✓	
" " Extends up to.....	✓		" " bottom Angles.....	6 x 6 x 1/2 ✓	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	2 @ 44 ✓	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	✓	
Depth of Framing Girder	✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or [.....	✓		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	✓	
" " Second 'tween Decks, Angle, [or [.....	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	✓	
" " Third " " " "	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	✓	
" " from 1/2 len. for'd. to 15% len. from Stem	9 x 3 1/2 x 3/8 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	✓	
" " in Peaks, Angle or [.....	7 x 3 1/2 x 3/8 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	✓		Breadth and thickness of Middle Line Strake... 47 x 54 ✓		
State if Frame Joggled	✓		Thickness of remainder in Holds	47 x 54 ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or 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?.....	✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	YES ✓		BEAMS. Longitudinal		
SINGLE BOTTOM. in Centre Tanks.			Uppermost Continuous Deck, amidships in Wells, Angle, [or [...	✓	
Floors, Depth and thickness at mid-line in Holds.....	✓		" " in way of Bridge, Angle, [or [.....	✓	
Height of Brackets at side above base line at toe of frame.....	✓		Spacing	✓	
Middle Line Keelson, on Floors, Angles, [or [.....	6 x 32 x 40 ✓		Second Deck, amidships, Angle, [or [.....	✓	
" " Through Plate or Inter-costal Plate	42 ✓		Spacing	✓	
" " Foundation Plate on Floors	✓		Third Deck, amidships, Angle, [or [.....	✓	
" " Flat Plate Keel Angle	6 x 6 x 60 ✓		Spacing.....	✓	
Side Keelsons, No. each side	✓		Fourth Deck, amidships, Angle, [or [.....	✓	
" " thickness of Intercoastal Plate.....	✓		Spacing.....	✓	
" " Angles	✓		Poop Deck, Angle, [or [.....	7 x 3 3/8 as app'd ✓	
DOUBLE BOTTOM. Aft.			Spacing.....	every ✓	
Solid Floors, thickness and spacing	40 x 44 every ✓		Bridge Deck, Angle, [or [.....	✓	
" " Are Frame and Reversed Frame joggled?	YES ✓		Spacing.....	✓	
Bracket Floors, breadth and thickness at middle line	✓		Forecastle Deck, Angle, [or [.....	6 x 32 x 5/16 ✓	
" " breadth and thickness at margin plate.....	✓		Spacing.....	every ✓	

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	✓		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.....	✓
„ in Holds „ „ „ „	✓		Thickness of Plating within line of openings...	✓
2 Long 1 „ „ „ „ „ „	9x32x46 ✓		If Sheathed, material and thickness.....	✓
Centre Line Bulkhead, 3 Stiffeners and Spacing L @ 30" ✓	6x3x34 ✓		Third Deck.	
Plating, thickness of50-.36 ✓		Stringer Plate, breadth and thickness.....	✓
STRINGERS AND DECKS.			If Plated, state thickness	✓
Uppermost Continuous Deck.			Fourth Deck.	
Stringer Plate, breadth and thickness in Wells	87x82 ✓		Stringer Plate, breadth and thickness.....	✓
„ „ „ „ „ in way of Bridge	✓		If Plated, state thickness.....	✓
„ Angle in Wells	8x8x82 ✓		Poop Deck.	
Thickness of Plating abreast Deck openings in way of Wells76x.66 ✓		Stringer Plate, breadth and thickness.....	39x38 ✓
Thickness of Plating abreast Deck openings in way of Bridge.....	✓		Plating, Sheathing, material and thickness29x.24 ✓
Thickness of Plating within line of openings...	✓		Bridge Deck.	
If Sheathed, material and thickness.....	✓		Stringer Plate, breadth and thickness.....	✓
Second Deck.			Plating, Sheathing, material and thickness ...	✓
Stringer Plate, breadth and thickness in Wells	✓		Forecastle Deck.	
			Stringer Plate, breadth and thickness.....	36x41 ✓
			Plating, Sheathing, material and thickness...	.27 ✓

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	No	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.		SINGLE OR DOUBLE.	Inches.	Inches.		Inches.	Inches.		
Flat Plate Keel.....	54	1.00	1.00	.86		D	1 1/8	4	3	1 1/8	4 1/2	DOUBLE STRAPS	
„ Dblg. (if any)		✓											
Bottom Plating, No. of Strakes A.B.C.D. }		.76	.87	.52		D	1	3 1/2	5	1	4 1/2	L	
Bilge Plating, No. of Strakes E..... }		.76	✓	✓		D	1 7/8	3 1/2	3 1/8	5	1	4 1/2	L
Side Plating, No. of Strakes F.G.H. }		.64	.48	.48		D	7/8	3 1/8	3	7/8	3 1/8	L	
Upper Deck, Sheer- strake in Wells..... }	73 1/2	1.00	.46	.46		D	1	3 1/2	Butts	welded.			
Upper Deck, Sheer- strake in Bridge ... }		✓											
Strake below Sheer- strake in Wells..... }		.77	.46	.46		D	1 7/8	3 1/2	3 1/8	4	1	4	L
Strake below Sheer- strake in Bridge ... }		✓											
Poop Side Plating.....		✓	✓	.42		S	7/8	3 1/2	2	3/4	2 5/8	L	
Bridge Side Plating.....		✓	✓	✓									
Forecastle Side Plating		✓	.46	✓		S	7/8	3 1/2	2	3/4	2 5/8	L	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	13 ✓
„ Deck next below	✓
As per Rule	✓

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar				
STEM				
STERN FRAME { Propeller Post				
{ Rudder „				
Speed of Vessel				
RUDDER—Type				
A x D.....				
Diam. of head				
Mainpiece at top pintle				
„ „ heel ...				
how constructed				
double or single plate coupling, vertical or horizontal				

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHD, CENTRE TANKS					
Upper 'tween decks		56-38	12x3 1/2x45L	36	2 GIRDERS 42x40
WING do.					
Second		56-38	do.	do.	36 F. ANGLES 7-10 L
Third		✓			36x40
Holds		✓			6'0A-10L
COLLISION (in Hold)		56-38	9x3 1/2x78L	36	4 GIRDERS 24x26
AFTER PEAK		48-34	do.	36	3 GIRDERS

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	Cargo Fleet, Skinninggrove, Dorman Long, Appleby Frodingham, South Durham, Consett
	Has the Steel been tested as required by the Rules? YES. ✓

SS. EMPIRE COLLINS. SUNDERLAND. N^o 33571
PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			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. Inches.	Rivets in Brackets to Bulkheads.	
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam.	Speng.		Number.	Diameter.
Framing of L, L or C												
Frames in Bridge 'tween Decks ...													
Frames from Uppermost Continuous Deck	No. 1	7	3 1/2	40					1	6	throughout		
	" 2	do.							7/8	5 1/4	do.		
	" 3	do.							7/8	5 1/4	do.		
	" 4	7	3 1/2	43					7/8	5 1/4	do.		
	" 5	8	3 1/2	36					7/8	5 1/4	do.		
	" 6	do.							7/8	5 1/4	8 Rivs @ 4		
	" 7	8	3 1/2	44					7/8	5 1/4	do.		
	" 8	9	3 1/2	37					7/8	5 1/4	do.		
	" 9	do.							7/8	5 1/4	do.		
	" 10	9	3 1/2	41					7/8	5 1/4	8 Rivs. 3 1/8		
	" 11	10	3 1/2	40					7/8	5 1/4	do.		
	" 12	11	3 1/2	43					7/8	5 1/4	do.		
	" 13	12	3 1/2	42 1/2 ch.					7/8	5 1/4	do.		
	" 14												
	" 15												
	" 16												
Spacing of Longitudinal Frames	Amidships	30"	as app ^d										
	At Ends												
Double Bottoms	Tank Top Longitudinals												
X, L or C	Bottom	15	4 1/4	41/62					7/8	5 1/4	9 Rivs. @ 3 1/8 8-11" spacing.		
Spacing of Longitudinals	Amidships	36									7" @ 3 1/8 7-2" do.		
	At Ends										Rivs. 4" apart. Bld 75.		
BOTTOM Transverses.													
CENTRE SIDE TANKS (in 'tween Decks)	Depth and Thickness	48	46										
	Face Angles	10	3 1/2	52	2 @ 8-11"								
	Lugs to Shell*	6	6	46	INTER 1/2								
WING SIDE TANKS (in Hold)	Depth and Thickness	36	44										
	Face Angles	6	3 1/2	40	OA.								
	Lugs to Shell*	6	6	44	INTER 1/2								
SIDE TRANSVERSSES Bottom	Depth and Thickness	36	44										
	Face Angles	6	3 1/2	48	OA.								
	Lugs to Shell*	6	6	44	INTER 1/2								
	" " Back Bars												
	Brackets												
Spacing of Transverse Frames													
	* State if joggled or liners.												
Longitudinal Beams of X, L or C	Bridge Deck												
	Upper	8	3 1/2	35									
	Second												
	Third												

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.

EQUIPMENT No.										LETTER <i>e</i>	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.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
<i>42278</i>	1st Bower ...	<i>86</i>	<i>3</i>	<i>14</i>				<i>61</i>	<i>17</i>	<i>2</i>	<i>0</i>	<i>85½</i>	<i>Stockless</i>	<i>✓</i>	<i>LPHS 25.8.42 RJV.</i>
<i>42059</i>	2nd „ ...	<i>86</i>	<i>1</i>	<i>7</i>				<i>61</i>	<i>17</i>	<i>2</i>	<i>0</i>	<i>85½</i>	<i>do.</i>	<i>✓</i>	<i>do. 18.6.42 WVN.</i>
	3rd „ ...											<i>43½</i>			
	Collective weight											<i>244½</i>			
<i>55355</i>	Stream	<i>25</i>	<i>1</i>	<i>18</i>	<i>6</i>	<i>1</i>	<i>14</i>	<i>25</i>	<i>1</i>	<i>2</i>	<i>7</i>	<i>25/ea stock</i>	<i>See Stock</i>		<i>LPHCH 17.9.42 WVN.</i>

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.	Status-ory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.		
18839	240	2 7/16	116 7/10	163 3/8	806.1.14		300	2 9/16	Stud Link	✓	LPHLN 18.11.42 AG	TOWLINE	130	5 1/4	775	130	5 1/4		
												HAWSERS & WARPS	20100	8" MANILLA		20100			
													20100	do.			do.		
Iron Stream Chain or Steel Wire	120	4 1/2		58.6			120	4 1/2											

Steering Gear, Type (Power or hand) *John Lynn & Sons* Alternative Means of Steering *Auxiliary Black Jack*

Steering Chains (Size and Test) *Telemotor* Windlass *Blake & Lapner* Boats *2-2 1/2" steel motorboats; 2-2 1/2" steel lifeboats*

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

Cargo Hatchways.—(Upper Deck) *8" x 50" coaming welded to deck* Thickness of Hatches *.50" Lugged O.T. covers*

Size of Hatchways *throughout 5'3" x 4'0"* No. 2 *✓* No. 3 *✓* No. 4 *✓* No. 5 *✓* No. 6 *✓*

Number of Shifting Beams and/or Fore and Afters *✓*

Builder's Signature *James Laing* and on behalf of *SIR JAMES LAING & SONS LIMITED* Managing Director

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 *tanker* 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).

oil fuel (F.P. above 150°F) carried in forward Engine room O.B. tank, Boiler room O.B. tank, oil fuel bunker, and in forward deep tank.

The vessel has been built in accordance with the approved plans, the Secretary's letter, & the Rules.

The materials & workmanship are good.

The freeboard marks have been verified & cut in on the vessel's side.

The double bottom, deep, fore & aft peak, F.W., cargo oil, tanks, O.F. bunker, cofferdams, have been tested in accordance with the Rules.

The deck, steering gear, emergency steering gear, windlass, have been satisfactorily tested.

The equipment of anchor & cables has been reduced as per Secretary's letter of 22.2.40 & 21.9.40

The following reports are enclosed:— Stern Frame, Rudder Head, Quadrant, Liller

The amount of Entry Fee..... £ 11: .. Fees applied for, *5 JAN 1943*

Special Survey Fee..... £ 667 7: .. Received by me, *19*

Specification 166.16

Travelling Expenses, if any £ 20 00

I am of opinion the Vessel should be Classed *+100 A.1*

Signature *W. C. Hulla* Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey *YES.*

Certificate to be sent to *SUNDERLAND* Date of issue *29/1/43*

Committee's Minute.....

Character assigned *+100 A.1*

Carrying petroleum in bulk

Boths of Sherrinbake Elec. Weld

Lloyd's recd. O.K.

Fitted for oil fuel 12.42 H. above 150°F

note for S.R.L. Mark Nye.

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 SS. EMPIRE COLERIDGE SLD RPT. N° 33406.

PARTICULARS OF ELECTRIC WELDING (if employed) Butts of sheestake welded for 3/4" D, Longitudinal bulkhead plating welded to shell and to deck, transverse bulkheads in centre tanks welded to bottom shell, hatch coaming welded to deck.

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

Butts of sheestake electrically welded
D.F. ; ~~ESD~~

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

including pins
1st Bower 53 3 20 S.P.R. 16.6.42
2nd " 55 1 H J.D. 30.12.41
3rd " 109.13

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 113.3 ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 38.25 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. ✓

Official No. 169106 Signal Letters ✓ Extreme Breadth over Belting (Circ. 1611) ✓ Over-all Length 503'9 1/2" (Circ. 1703)

No. and Material of Decks 1 Steel Deck

Parts of Bottom of Vessel coated with cement or approved composition

Particulars of composition (if fitted) and of approval

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,			Fore peak tank,	28	322 ✓
Double bottom, under Engines and Boilers, 55.25	✓		After peak tank,	17.5	205 ✓
Double bottom, if under Engines only,	19.87	87	Deep tank, aft,		
Double bottom, if under Boilers only,	✓		Deep tank, forward,	31.08	613 ✓
Double bottom, forward,	✓		Other tanks, if fitted, and Cofferdam	3.00	164
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch of tank)	3.00	180

Order for Special Survey No. 6017

Date 23.12.41

Dates of Surveys held while building

1942. Apr. 7, 10, 13, 15, 16, 17, 21, 24, 27, 29. May 5, 11, 15, 18, 19, 26, 27. June 1, 2, 4, 5, 8, 9, 12, 15, 17, 18, 22, 24, 26, 29, 30. July 2, 6, 8, 9, 13, 14, 15. Aug 4, 5, 10, 11, 12, 14, 15, 17, 18, 21, 25, 27, 28. Sep 1, 2, 3, 5, 7, 8, 9, 10, 11, 14, 16, 17, 18, 21, 22, 23, 25, 26, 28. Oct 1, 7, 9, 12, 19, 28. Nov 21, 23. Dec 2, 12, 19, 22, 29.

Total No. of Visits 86