

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

Survey held at West Mablepool. Date First Survey 25th April Last Survey 28th December. 1940

On the (State Machinery fitted Aft and
if Single, Twin or Triple Screw) *Single Screw.* "EMPIRE STRAIT" Machinery aft. ✓

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling* State Type of Erections *R.O. dk + Ice.*

TONNAGE under Tonnage Deck...}	2122.68	CLASS + 100 A.1.	State if with freeboard as condition of Class}	No	Built at	West Antelope
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Do. of space or spaces between Tonnage Dk. and Upper Dk. } ✓ Length from fore part of stem to after part of stern } L 305.83 } Launched 31 = October, Yard No. 1112 }
most on summer L.W.L. See Sec. 3 (1a) }
Builders Wm Gray & Co Ltd.

Total		Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 2 (1c)	D	21.50	Owners	The Ministry of Shipping
Gross Tonnage	2824.07					

Register Tonnage 1544.73 1st Longitudinal Number (L x D).....= 6575 ✓ Managers Morris Connell & Grace Ltd
2nd Numeral L x (B + D).....= 20108 ✓ (Where necessary to be entered in Reg. Book.)

REGISTERED DIMENSIONS.	Framing Depth "d," at middle of length. See } Sec. 3 (1d)	Residence <i>New Castle</i>
FEET.	Proportions—Depth to Length—Uppermost con—	Port of Registry <i>West Hartlepool</i>
<i>31.0</i>	<i>14.33</i>	

Breadth 44.45 }
Do. Long Bridge to top of keel } 11.65 ✓ If surveyed while building, afloat, or in dry dock

Depth 19.40. Draught Moulded 19' 2 7/8 Building, afloat & in dry dock.

	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	24 ✓		Bracket Floors, Frame	none ✓	
" " from $\frac{3}{8}$ length amidships to } Collision bulkhead.....}	24 ✓		" " Reversed Frame	none ✓	
" " in peaks.....	24 ✓		" " Vertical Struts	none ✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	36" x .43 ✓	
Frame Amidships, Angle, \square or Γ	8 3½ 7/16 ✓		" " top Angles	3 3 3/8 ✓	
" " Extends up to	Upper dk. ✓		" " bottom Angles	3½ 3½ 7/16 ✓	
R.Q = dk			Side Girders, No. each side and thickness	2 - .30 ✓	
Reversed Frame Amidships, Angle \square	9 3½ 7/16 ✓		Margin Plate depth (excl. of flange) and thickness	34 x .40 ✓	
" " Extends up to...	R.Q = dk. ✓		" " Vertical Angle to Tank side	3 x 3 x 3/4 x 1/2 T way 2" in	
Depth of Framing Girder	8" x 9" ✓		" " Bracket abaft ¼ len. from stem	way of R.Q = dk + way 3rd in way of upper deck ✓	
Frames in Uppermost Continuous 'tween } Decks, Angle, \square or Γ.....}	✓		" " Vertical Angle to Tank side	3 x 3 x 3/4 x 1/2 T way 2" in	
" " Second 'tween Decks, Angle, \square or Γ	✓		" " Bracket from forward ¼ len. from stem to Panting Area		
" " Third " " " "	✓		" " Gussets, spacing and scantling abaft ¼ len. from stem.....	✓	
" " from ½ len. for'd. to 15% len. from Stem	9 3½ 3/8 ✓		" " Gussets, spacing and scantling from forward ¼ len. from stem to Panting Area.....	✓	
" " in Peaks, Angle or \square	7 3 3/8 ✓	6 x 3½ x 7/16 upper	Tank Side Brackets, height above base line at toe of Frame and thickness	26" above Margin x .36 flg ✓	
Diameter and Spacing of Rivets through } Frame and Shell Plating amid- }	3/4" - 5/4" ✓		INNER BOTTOM PLATING.		
State if Frame Joggled	yes ✓		Breadth and thickness of Middle Line Strake ...	46" x .56 ✓	memor. you of cell .41 ✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	yes ✓		Thickness of remainder in Holds56 ✓	.35 ✓
Are the scantlings and arrangements in way of the Bottom Forward 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?	yes ✓	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in } Holds			Uppermost Continuous Deck, amidships } in Wells, Angle, \square or Γ.....}	6 3½ .38 ½ beams ✓	
Height of Brackets at side above } base line at toe of frame			" " " in way of Bridge Angle, \square or Γ	8 3½ 7/16 3hrs' " ✓	
Middle Line Keelson, on Floors, Angles, } \square or Γ			Spacing	24" ✓	
" " " Through Plate or } Intercoastal Plate...			Quarter		
" " " Foundation Plate on } Floors			Second Deck, amidships, Angle, \square or Γ	6 3½ .38 ½ beams ✓	
" " " Flat Plate Keel Angles			Spacing.....	8 3½ 7/16 3hrs' beams ✓	
Side Keelsons, No. each side			Third Deck, amidships, Angle, \square or Γ	✓	
" " thickness of Intercoastal Plate...			Spacing.....	✓	
" " Angles			Fourth Deck, amidships, Angle, \square or Γ	✓	
DOUBLE BOTTOM.			Spacing.....	✓	
Solid Floors, thickness and spacing	34 way ✓		Poop Deck, Angle, \square or Γ	✓	
" " Are Frame and Reversed Frame } joggled?	Frame yes ✓		Spacing.....	✓	
Bracket Floors, breadth and thickness at } middle line.....}	none ✓		Bridge Deck, Angle, \square or Γ	✓	
" " breadth and thickness at } margin plate.....}	none ✓		Spacing	✓	
			Forecastle Deck, Angle, \square or Γ	6 3½ 7/16 ✓	
			Spacing	6 3½ 3/8 ✓	
				24" ✓	

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	62 sloping side of hatch ✓	
„ „ „ „ „	✓		Thickness of Plating abreast Deck openings in way of Bridge	✓	
„ in Holds „ „	none ✓		Thickness of Plating within line of openings...	44 + 36 ✓	
„ „ „ „ „	✓		If Sheathed, material and thickness	none ✓	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	✓		If Plated, state thickness.....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	60" x 1.0 ✓		If Plated, state thickness	✓	
„ „ „ „ in way of Bridge	✓		Poop Deck.		
„ Angle in Wells	6 6 5/8 ✓		Stringer Plate, breadth and thickness	✓	
Thickness of Plating abreast Deck openings in way of Wells	76 sloping side of hatch ✓		Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...	44 + 36 ✓		Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness	✓		Plating, Sheathing, material and thickness ...	✓	
R. Q. Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	60 x 68 ✓		Stringer Plate, breadth and thickness.....	34 + 32 ✓	30 ✓
			Plating, Sheathing, material and thickness ...	30 ✓	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			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.									Inches.
FLAT PLATE KEEL	45 ✓	60 ✓	56 ✓	56 ✓		Double ✓	7/8 ✓	3 1/2 ✓	Double ✓	7/8 ✓	2 3/4 ✓	lapped ✓	
„ DBLG. (if any)			✓										
BOTTOM PLATING, No. of Strakes 3 }		48 ✓	A 45 ✓ B 41 ✓ C 47 ✓	40 ✓	40 ends ✓	Double ✓	3/4 ✓	3 ✓	Double ✓	3/4 ✓	2 5/8 ✓	lapped ✓	
BILGE PLATING, No. of Strakes 1 }		48 ✓	47 ✓	40 ✓	" ✓	Double ✓	3/4 ✓	3 ✓	Double ✓	3/4 ✓	2 5/8 ✓	" ✓	
SIDE PLATING, No. of Strakes 2 }		F 48 ✓	47 ✓	40 ✓	" ✓	Double ✓	3/4 ✓	3 ✓	Double ✓	3/4 ✓	2 5/8 ✓	lapped ✓	
UPPER DECK, Sheer-strake in Wells.....	69 1/2 ✓	51 ✓	40 ✓	40 ✓		✓	✓	✓	Quad ✓	7/8 ✓	3 1/2 ✓	lapped ✓	
UPPER DECK, Sheer-strake in Bridge ...		51 ✓	✓	40 ✓		Double ✓	7/8 ✓	3 1/2 ✓	Double ✓	7/8 ✓	3 1/8 ✓	lapped ✓	
STRAKE BELOW Sheer-strake in Wells.....	71 ✓	55 ✓	40 ✓	40 ✓		Double ✓	7/8 ✓	3 1/2 ✓	Double ✓	7/8 ✓	3 1/8 ✓	lapped ✓	
STRAKE BELOW Sheer-strake in Bridge ...		48 ✓	40 ✓	40 ✓		Double ✓	7/8 ✓	3 1/2 ✓	Double ✓	3/4 ✓	2 5/8 ✓	lapped ✓	
POOP SIDE PLATING													
R. Q-deck sheer BRIDGE SIDE PLATING ...	62 1/2 ✓	54 ✓	✓	40 ✓		✓	✓	✓	Double ✓	7/8 ✓	3 1/8 ✓	lapped ✓	
FORECASTLE SIDE PLATING			36 ✓		bottom seam } one plate in depth.	Single ✓	7/8 ✓	3 1/2 ✓	Single ✓	3/4 ✓	2 5/8 ✓	" ✓	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	484 i. R. Bk.
Extending to Upper Deck (Sec. 3 c)	2 plus 2 dup tank blds
„ Deck next below	1 bld omitted in fore hold
As per Rule	1 (aft peak).

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		✓		
STEM	rolled bar	8 x 2 1/8 ✓		
STERN FRAME	Propeller Post	Forged Iron	9" x 5 1/2 ✓	CMEW.
	Rudder	"	9" x 5 1/2 ✓	"
Speed of Vessel	under 12 knots	✓		
RUDDER—Type	ordinary.	✓		
„ A x D	273	✓		
„ Diam. of head	Forged Iron	8 1/2 ✓		CMEW
„ Mainpiece at top pintle	"	8 1/2 ✓		"
„ „ heel ...	"	6 1/2 ✓		
„ how constructed	Rudder arms keyed to mainpiece			
„ double or single plate coupling, vertical or horizontal	Single			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD , Upper tween decks					
„ „ Second „					
„ „ Third „					
„ „ Holds	44-32	12 x 3 1/2 x 45	30"		
COLLISION „ (in Hold)	40-30	7 x 3 x 33	24"		
AFTER PEAK „ „	42-50	30	6 x 3 1/2 x 50	24"	

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)				Open hearth ✓
	South Durham S & J. Co.	Dorman Long & Co.	Skinner's Iron Co.	Lloyd's Register Foundation	
	Consolidated Iron Co.	Lanarkshire Steel Co.	Cargo Steel & L Co.		
	Has the Steel been tested as required by the Rules?				Yes ✓

EQUIPMENT No. 21412 ✓										LETTER t ✓		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.			
25209	1st Bower ...	42	3	0	stockless			34	13	3	0	42 ✓	Ryans Stockless	Not stated	L.W. 16/9/40 a Green
25208	2nd „ ...	42	1	14	“			34	8	0	14	42 ✓	“ “	“ “	L.W. 16/9/40 “
	3rd „ ...	1 Bower omitted			a/c			EMERGENCY			35½ ✓				
	Collective weight.											119½ ✓			
58431	Stream	11	0	14	3	0	0	13	0	0	0	11 ✓	Rodgers & Lygon W.S. anchor.	Kendrick & Mole LTD.	C.H. 7/12/40 L.S. Paul.

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.	Cir.		Length.	Cir.		
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.			Fathoms.	Ins.	Tons.	Fathoms.	Ins.		
112602	105½	1 7/8	63¼	88½	189	2	25	425¼	240	1 7/8	slud	Kendrick + Mole	N. 14/9/40 Jalf.	TOWLINE...	100	4	332	100	4
112603	105	1 7/8	63¼	88½	187	3	0					" "	N. 23/9/40 Jalf.	HAWSERS & WARPS }	2-90	2½	13.2	2-90	2½
	210½				377	1	25	343	Rule for 210½ cwt							2-90	2¼	10.8	2-90
					30 fms omitted a/c			EMERGENCY											
Iron Stream Chain or Steel Wire }																			
	75	4¼		36	4				75	4¼									

Steering Gear, Type (Power or hand) *J. Hastie & Co.* *Steam* Alternative Means of Steering *Blocks & Tackle to launch*

Steering Chains (Size and Test) *✓* Windlass *Emmerson Walker & Co.* Boats *1-26 x 8.0 x 3.3 fitted with motor.*
1-25 x 7.8 x 3.2

Ceiling in Holds, thickness and material *2½" in way of frame brackets plates* *✓* Cargo Battens, thickness, material and spacing *Permanent omission. See letter 13.12.40*
None attached to "EMPIRE BAY"

Cargo Hatchways.—(Upper Deck) *Steel plates & angles* Thickness of Hatches *3"* *✓*

Size of Hatchways No. 1 (Fwd.) *34'9" x 22'5"* No. 2 *42'9" x 28'5"* No. 3 *33'9" x 28'5"* No. 4 *35'9" x 26'9"* No. 5 *25'4"* No. 6

Number of Shifting Beams and/or Fore and Afters *6* *7* *5* *5*

Builder's Signature *FOR WILLIAM GRAY & CO. LIMITED.*
Thos. S. Simpson
GENERAL MANAGER

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 *No* *✓*
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *No* *✓* 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).

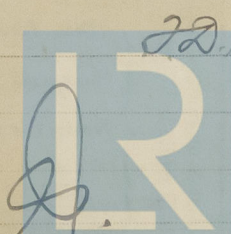
This vessel has been constructed in accordance with the approved plans, the Surveyor's letters and specification (amended) and generally conforms with the Society's Rules for the class contemplated *✓*
The materials & workmanship are good. *✓* All double bottom tanks, peak tanks, & deep tank have been tested as required by the rules & found satisfactory. *✓* The weather decks, watertight bulkheads, W.T. door to tunnel through bunker and tunnel have been satisfactorily tested. *✓*
The assigned freeboards have been marked on the vessel's sides verified & cut in *✓*
The windlass & steering gears have been satisfactorily tried under working conditions. *✓*

The amount of Entry Fee £ *6* : - : - Fees applied for, (Special notations, where part of class, to be stated.)
Special Survey Fee.... £ *240* : *5* : - Received by me, I am of opinion the Vessel should be Classed *+ 100 A.1.*
and specification
Travelling Expenses, if any £ *13* : - : -

State whether the Vessel has been built under Special Survey *Yes* Signature *H. J. Lang.*
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *W. H. Pl.* Date of issue *28/1/41*

Committee's Minute *TUE. 21 JAN 1941*
Character assigned *+ 100 A.1*
+ Limb 12.40
Lloyd's a/c, O.L.
Cargo tanks not fitted
note for S.R.L.


Lloyd's Register Foundation
0198 2/2

The Surveyor's name is required to be written on or below the Committee's Minutes.

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 approved plans & forging reports are attached

PARTICULARS OF ELECTRIC WELDING (if employed)

Hatch corners welded with approved electrodes.

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

4 Bkds, Intermediate Bulkhead dispensed with. Cargo battens not fitted. 1 deck. Machinery apt. Notation about Equipment.

Cruiser Stern, Lloyd's A.C.P.

Cargo battens not fitted.

Notation about Equipment.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	Weight incl. pins.	Surveyor's Initials	No of Cert.	Date of test.
	2nd "	27-1-0	J.T.	3328	24.7.40
	3rd "	27-0-14	J.T.	3340	26.7.40

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. 174.7 ft., Bridge ft., Forecastle 36.5 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 160789. Signal Letters - Extreme Breadth over Belting (Circ. 1611) 145.18 Over-all Length (Circ. 1703) 321.0

No. and Material of Decks 1 deck. steel. Parts of Bottom of Vessel coated with cement or approved composition Peaks & boiler room Tank cemented, remainder of D.B. tanks cement fillets fitted. E & Blh room bilges bituminous enamel.

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. Feet.	SW Water Capacity. Tons.	Where Fitted.	Length. Feet.	SW Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	28.0	217
Double bottom, under Engines and Boilers, aft	42	42	After peak tank,	18.0	37
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	218	764	Other tanks, if fitted, Deep tank amidships	13.6	259
Total length (if continuous) and Capacity	260	839	(If necessary, furnish further information by sketch.)		

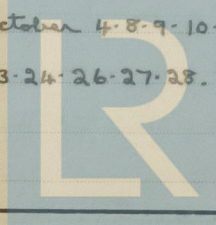
Main body of tank bet boundary BH: 8'

Order for Special Survey No. 2428

Date 29/3/40.

Dates of Surveys held while building

1940. April 25-30. May 1-20-23-27-30. June 4-11-13-18-19-24-25-28. July 12-15-22-23-25-30. August 1-2-8-13-15-20-28. September 5-6-7-9-11-12-23. October 4-8-9-10-21-23-24-26-29-30-31. Nov. 1-4-14-19-20-27. December 2-4-10-12-17-18-20-21-23-24-26-27-28.



Lloyd's Register Foundation
Total No. of Visits 65