

STEEL STEAMER or MOTORSHIP.

Received at London Office 14 SEP 1942

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 9th Sept 1942

Port of West Hartlepool

No. 18330

Survey held at West Hartlepool

Date First Survey 13th October, 1941.Last Survey 8th September, 1942

On the (State if Machinery fitted with or without Tonnage Openings)

Single Screw

"EMPIRE CLARION"

Machinery amidships

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

Complete Superstructure without tonnage opening

State Type of Erections Forecastle

TONNAGE under Tonnage Deck... 6571.98

CLASS + 100 A.1.

State if with freeboard as condition of Class Yes

Built at West Hartlepool.

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

Total

Gross Tonnage 7031.21

Register Tonnage 4915.74

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

L 425'-0"

Launched 30th June 1942 Yard No. 1133

Breadth (greatest moulded)

B 56'-0"

Builders Wm Gray & Co Ltd.

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 37'-8"

Owners Ministry of War Transport

1st Longitudinal Number (L x D)

= 15194

Managers Sir R. Roper & Co Ltd.

2nd Numeral L x (B + D)

= 38994

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

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

23'-3"

Residence

Proportions—Depth to Length—Uppermost continuous deck to top of keel

11.27

Port of Registry West Hartlepool.

Do. Long Bridge to top of keel

Draught Moulded

26'-7½"

If surveyed while building, afloat, or in dry dock

Building, afloat, & 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	31		Bracket Floors, Frame		
" " from ½ length amidships to Collision bulkhead	27		" " Reversed Frame		
" " in peaks	24		" " Vertical Struts		
FRAME FRAMING.			Centre Girder, depth and thickness amidships	43½ x .54	
Frame Amidships, Angle, E or F	12 3½ 9/16		" " top Angles	3½ 3½ .48	
" " Extends up to 2 nd deck + upper dk alternately			" " bottom Angles	4 4 .54	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	4 x 3 x .42 4 x 3½ x .42	Plate girder in machy space + fwd 9½ L
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	36 x .54	
Depth of Framing Girder	12"		" " Vertical Angle to Tank side Bracket abaft ½ len. from stem	6 6 .44	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	12 3½ 9/16 all		" " Vertical Angle to Tank side Bracket from forward ½ len. from stem to Panting Area	6 6 .44 double	
" " Second 'tween Decks, Angle, E or F			" " Gussets, spacing and scantling abaft ½ len. from stem	.42 continuous	
" " Third " " " "			" " Gussets, spacing and scantling from forward ½ len. from stem to Panting Area	.42 continuous	
" " from ½ len. for'd. to 15% len. from Stem	12 3½ 9/16		Tank Side Brackets, height above base line at toe of Frame and thickness	94 ⅞ x .44	
" " in Peaks, Angle or F	8 3½ .35		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 3½ 7" on bottom 3½ 6 7/8 on sides		Breadth and thickness of Middle Line Strake	71 ¾ x .50	
State if Frame Joggled	Yes		Thickness of remainder in Holds	.44, .52 under hatches	
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?	Yes	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes		BEAMS.		
ANGLE BOTTOM.			Uppermost Continuous Deck, amidships	8 3½ .42	
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, E or F		
Height of Brackets, at side above base line at toe of frame			" " Spacing	31	
Middle Line Keelson, on Floors, Angles, E or F			Second Deck, amidships, Angle, E or F	9 3½ .38	
" " Through Plate or Intercoastal Plate			" " Spacing	31	
" " Foundation Plate on Floors			Third Deck, amidships, Angle, E or F		
" " Flat Plate Keel Angles			" " Spacing		
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, E or F		
" " thickness of Intercoastal Plate			" " Spacing		
" " Angles			Poop Deck, Angle, E or F		
DOUBLE BOTTOM.			" " Spacing		
Solid Floors, thickness and spacing	.42 way		Bridge Deck, Angle, E or F		
" " Are Frame and Reversed Frame joggled?	Yes		" " Spacing		
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, E or F	9 3½ .42	
" " breadth and thickness at margin plate			" " Spacing	27 x 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	36	✓
„ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge	✓	
„ in Holds „ „			Thickness of Plating within line of openings...	34	✓
„ „ „ „ „			If Sheathed, material and thickness	none	✓
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	12 3 1/2 7/16	✓	Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	30	✓	If Plated, state thickness.....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	12 1/2 1/4	
Stringer Plate, breadth and thickness in Wells	65 5/8 x .65	✓	If Plated, state thickness	12 1/2 1/4	
„ „ „ „ 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 Wells60 4 .55	✓	Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...	.40	✓	Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness	none	✓	Plating, Sheathing, material and thickness ...	2 3/8	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	82 3/4 x .38	✓	Stringer Plate, breadth and thickness.....	36	✓
			Plating, Sheathing, material and thickness ...	32 unsheathed	✓

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.			Diam. Inches.	Spacing cr. to cr. Inches.		Diam. Inches.	Spacing cr. to cr. Inches.		
FLAT PLATE KEEL	54	80	70	70		Double	7/8	3 1/2	Triple	7/8	4	Double straps throughout No welded butts	
„ DELG. (if any)	A B C D	.65 .60 .65 .65	.50 .70 .50 .50	.50		Double	7/8	3 1/2	Four	7/8	3 1/2	lapped	
BOTTOM PLATING, No. of Strakes	E	.64	.50	.50		Double	7/8	3 1/2	Four	7/8	3 1/2	Inside straps	
BILGE PLATING, No. of Strakes	F G H	.60 .60 .65	.45 .45 .45	.45		Double	7/8	3 1/2	Triple	7/8	3 5/32	lapped	
SIDE PLATING, No. of Strakes	77 1/2	.73	.46	.46					Quad	1	4	lapped	
UPPER DECK, Sheer- strake in Wells													
UPPER DECK, Sheer- strake in Bridge ...													
STRAKE BELOW Sheer- strake in Wells65	.46	.46		Double	7/8	3 1/2	Triple	7/8	3 5/32	lapped	
STRAKE BELOW Sheer- strake in Bridge ...													
POOP SIDE PLATING													
BRIDGE SIDE PLATING ...													
FORE'C'TLE SIDE PLATING			.40			Single	3/4	3	Single	3/4	2 5/8	lapped	

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
Extending to Upper Deck (Sec. 3 c)	Collision Bhd to Weather deck. 6 W.T. Bhd's to Second deck 6 divisional W.T. Bhd's in 'tween decks <i>For closing of openings in in 'tw. dk. B.H.</i> <i>See page 12 of this report.</i>				
Deck next below					
As per Rule 7					
		STIFFENERS.			
Plating Thickness.		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks	.26	5" x 3" x .42A	30"		
" " Second "					
" " Third "					
" " Holds	.39-.26	12" x 3 1/2" x .45J	30"		
COLLISION " (in Hold)	.53-.29	10" x 3 1/2" x .44J	24"		
AFTER PEAK " "	.48-.75-.30	6" x 3" x .30A	24"		
		9" x 3 1/2" x .38J			
		3 1/2" x 3" x .30A	24"		
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)		open heart.			
STEEL.	Dorman Long & Co. Cargo Fleet Iron Co. Consell Iron Co. South Durham S & I. Co. Ltd. Skinningrove Iron Co. Ltd. American Steel				
Has the Steel been tested as required by the Rules?		Yes.			

EQUIPMENT No 40053

LETTER a +

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.	qrs.			
41862	1st Bower ...	68	2	14	Stock less			53	1	3	14	68		Byers Imp. Stockless	Not stated	Sec. 29/4/42 W. V. Norman
41861	2nd " ...	67	3	21	"			52	12	2	0	68		" " "	"	Sec. 28/4/42 W. V. Norman
51508	3rd " ...	60	0	21								58 1/2				
	Collective weight.	196	3	0								194 1/2				
55298	Stream ...	19	2	22	4	3	13	20	10	2	14	19		Large iron anchor	Kendrick + Mole Ld.	C. 71 1/2 42 W. V. Norman

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.
65421	118 ¹ / ₂	2 ⁵ / ₁₆	96 ¹ / ₄	134 ¹ / ₄	314-0-9	600 for	225	2 ⁵ / ₁₆	Stid	Kendrick & Mole Ld.	C.H. 25/6/42 L.E. Paul	TOWLINE...	120	4 ¹ / ₄	64.6	120	4 ³ / ₄
65422	104 ¹ / ₂	2 ⁵ / ₁₆	96 ¹ / ₄	134 ¹ / ₄	282-3-3	225 fms	Emergency Requirement		"	"	C.H. 25/6/42 L.E. Paul	HAWSERS & WARPS	2-90	2 ³ / ₄	15.2	2-90	2 ³ / ₄
	222 ¹ / ₂				599-3-12	Rule	240	2 ⁵ / ₁₆					2-90	2 ¹ / ₂	13.2	2-90	2 ¹ / ₂
		Cir.						Cir.									
Iron Stream Chain or Steel Wire	90	5			70.9		90	5									

Steering Gear, Type (Power or hand) *John Hastic & Co. Steam + Tel Control* Alternative Means of Steering *Blocks + tackle to winch*

Steering Chains (Size and Test) *Windlass Emmerson Walker & Co. Ld* *Boats 1 at 22.0 x 7.35 x 2.9 1 at 22.0 x 7.35 x 2.9 1 at 26.0 x 8.25 x 3.4 1 at 26.0 x 8.55 x 3.45 fitted with motor*

Ceiling in Holds, thickness and material *2 1/2" wood over bilges* Cargo Battens, thickness, material and spacing *cargo battens not supplied. cleats supplied + holes punched in frames for same*

Cargo Hatchways.—(Upper Deck) *Steel plates + angles* Thickness of Hatches *2 1/2" + 3" at cross bunker weather deck 2 1/2" + 3" at cross bunker on 2nd deck*

Size of Hatchways No. 1 (Fwd.) *31'6" x 20'0"* No. 2 *31'0" x 20'0"* No. 3 *31'0" x 20'0"* No. 4 *12'11" x 20'0"* No. 5 *31'0" x 20'0"* No. 6 *31'0" x 20'0"*

Number of Shifting Beams and/or Fore and Afters *5 5 5 1 5 5*

Builder's Signature

FOR WILLIAM GRAY & CO. LIMITED.

Chas. 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 Secretary's letters + specifications (amended) and generally conforms with the Society's Rules for the class contemplated. The materials + workmanship are good. All double bottom tanks + peak tanks have been tested as required by the Rules + found satisfactory. The weather decks, W.T. Bulkheads, tunnel, + divisional W.T. Bulkheads in twin decks have been satisfactorily tested. The assigned freeboards have been marked on the vessel's side, verified + cut in. The windlass + steering gear have been satisfactorily tried under working conditions.

The amount of Entry Fee £ 10 : 0 : 0

Fees applied for,

(Special notations, where part of class, to be stated.)

Special Survey Fee, £ 469 : 14 : 4

Supervision of Specification

Received by me,

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

Travelling Expenses, if any £

Freeboard 18 - - -

19

with freeboard

State whether the Vessel has been built under Special Survey *Yes*

Signature

W. J. Craig

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *W. J. Craig*Date of issue *5/10/42*

Committee's Minute

FRI 18 SEP 1942

Character assigned

*+ 100 A.1**With freeboard**Lloyd's asst.**+ 100 A.1**note for S.R.**W. J. Craig*

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Lloyd's Register Foundation

0073 1/2

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 are enclosed.

This vessel is of the fabricated "B" type design similar to "Empire Lionel" (William Gray & Co N° 1128 vessel) & previous ships

Closing of openings in divisional W.T. Bulkheads in tween decks.

The access opening in bulkhead 133 is closed by a riveted W.T. plate.

The tonnage openings in bulkhead 109 are closed by riveted Watertight plates.

The opening in bulkhead 14 is closed by a hinged W.T. door operated from both sides.

The openings in bulkhead 87 are closed by watertight hinged doors.

The tonnage openings in bulkhead 34 are closed by riveted W.T. plates.

The tonnage openings in bulkhead 58 are closed by riveted W.T. plates.

PARTICULARS OF ELECTRIC WELDING (if employed)

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

2 decks, D.F. cargo battens not fitted, notation about equipment, E.S.D.

Collision bld to weather deck, 6 bulkheads to Second deck, 6 divisional W.T. Bldgs in tween decks with foreboard.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	2nd "	3rd "
	45-1-7	44-1-21	
	K.L.	K.L.	
	4578	4422	
	31-1-42	27-11-41	

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle 39-5 ft. on upper deck

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

Official No. 168944 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 446-4" (Circ. 1703)

No. and Material of Decks 2 decks. Steel.

Parts of Bottom of Vessel coated with cement or approved composition F & A. peak tanks, B.B. tank under boilers cemented. Remainder of tanks cement filled.

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. Feet.	SW. Water Capacity. Tons.	Where Fitted.	Length. Feet.	SW. Water Capacity. Tons.
Double bottom, aft,	111-1	302	Fore peak tank,	21-5	119
Double bottom, under Engines and Boilers,	28-4	132	After peak tank,	18-0	123
Double bottom, if under Engines only,	18-1	dry tank	Deep tank, aft,		
Double bottom, if under Boilers only,	209-7	821	Deep tank, forward,		
Double bottom, forward,	367-3	1253	Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 2449

Date 18/9/41.

Dates of Surveys held while building

1941. October. 13-23-31. November 3-11-24. December 3-4-12-18-24-1942. January 6-14-20-24. February 4-6-9-11-13-17-19. March 2-19-24. April 1-7-10-14-22-30. May 1-5-9-12-14-18-20-27. June 1-4-8-10-11-15-16-17-25-30. July 1-7-9-10-14-15-20-21-22-24-27-30. August 10-12-13-18-19. 21-25-26-27-28-September 8.

Total No. of Visits 72