

STEEL STEAMER ~~OF MOTORSHIP~~

Received at London Office 9 MAR 1943

State of Report is sent on the Machinery of the Vessel YES

Date of completion of report 6-3-43

Port of WEST HARTLEPOOL

No. 18389

Survey held at W. HARTLEPOOL

Date First Survey 8th May, 1942

Last Survey 3rd March, 1943

On the (State if Machinery fitted Afloat or if Single, Twin or Triple Screw) SINGLE SCREW "EMPIRE MORTIMER" (MACHY. AMIDSHIPS)

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) COMPLETE SUPERSTRUCTURE WITHOUT TONNAGE OPENINGS State Type of Erections FO'CLE.

TONNAGE under 6571.98
Tonnage Deck...

CLASS 100 A1

State if with freeboard YES
as condition of Class

Built at WEST HARTLEPOOL

Do. of space or spaces
between Tonnage Dk.
and Upper Dk. ✓Length from fore part of stem to after part of stern
most on summer L.W.L. See Sec. 3 (1a) } L 425'-0" ✓

Launched 22-12-42 Yard No. 1141

Total ✓

Breadth (greatest moulded) B 56'-0" ✓

Builders WILLIAM GRAY & CO LTD

Gross Tonnage 7050.56

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

Register Tonnage 4867.56

1st Longitudinal Number (L x D) = 15194 ✓

Managers MUNGO CAMPBELL & CO. LTD.

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

2nd Numeral L x (B + D) = 38994 ✓

Residence

REGISTERED DIMENSIONS.
FEET.

Length 431.5

Framing Depth "d." at middle of length. See
Sec. 3 (1d) 23.3 ✓

Port of Registry W. HARTLEPOOL

Breadth 56.2

Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel 11.27 ✓

If surveyed while building, afloat, or in dry dock

Depth 35.2

Brought Moulded 26'-7 1/2" ✓

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 3/4 length amidships to Collision bulkhead.....	27	✓	" " Reversed Frame	✓	
" " in peaks.....	24	✓	" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/4 x .54	✓
Frame Amidships, Angle [or]	12 3 1/2 9/16	✓	" " top Angles	3 1/2 3 1/2 .48	✓
" " Extends up to 2nd dk & upper dk alt. ✓			" " bottom Angles	4 4 .54	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	1 6 x 3/2 x .42	✓
" " 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 1/4 len. from stem Panting Area	6 6 .44	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	12 3 1/2 9/16 alt. ✓		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	6 6 .44	double ✓
" " Second 'tween Decks, Angle, [or]	✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	Continuous .42	✓
" " Third " " " "	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area.....	Continuous .42	✓
" " from 1/4 len. for'd. to 15% len. from Stem.....	12 3 1/2 9/16 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	94 7/8 x .44	✓
" " in Peaks, Angle or [.....	8 3 1/2 .35	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	7/8 - 3/2 x 7" on bottom 3 5/8 x 6 5/8 on sides ✓		Breadth and thickness of Middle Line Strake ...	71 3/4 x .50	✓
State if Frame Joggled	Yes	✓	Thickness of remainder in Holds44 x .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.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, [or]	8 3 1/2 .42	✓
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	31	✓
Middle Line Keelson, on Floors, Angles, [or]			Second Deck, amidships, Angle, [or]	9 3 1/2 .38	✓
" " Through Plate or Intercostal Plate			Spacing	31	✓
" " Foundation Plate on Floors			Third Deck, amidships, Angle, [or]		✓
" " Flat Plate Keel Angles			Spacing		✓
Side Keelsons, No. each side			Fourth Deck, amidships, Angle, [or]		✓
" " thickness of Intercostal Plate...			Spacing		✓
" " Angles			Poop Deck, Angle, [or]		✓
DOUBLE BOTTOM.			Spacing		✓
Solid Floors, thickness and spacing	Every .42	✓	Bridge Deck, Angle, [or]		✓
" " Are Frame and Reversed Frame joggled?	Yes	✓	Spacing		✓
Bracket Floors, breadth and thickness at middle line.....	✓		Forecastle Deck, Angle, [or]	9 3 1/2 .42	✓
" " breadth and thickness at margin plate.....	✓		Spacing	6 3 .44	✓
				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.....	✓			
Stringer Plate, breadth and thickness in Wells	65	5/8	65	✓	If Plated, state thickness	✓			
„ „ „ „ 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 Wells	60	2	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 ...	✓			
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	82	3/4	38	✓	Stringer Plate, breadth and thickness.....	✓	36		
					Plating, Sheathing, material and thickness ...	✓	un-sheathed	32	✓

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.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	54	80	70	70		Double	7/8	3 1/2	Treble	7/8	4	Double straps
„ DBLG. (if any)												
BOTTOM PLATING, No. of of StrakesA.....	A B C D	65 60 65 65	50 70 70 50	50		Double	7/8	3 1/2	Quad.	7/8	3 1/2	Lapped
BILGE PLATING, No. of StrakesF.....	E F G H	64 60 60 65	50 50 45 45	50		"	7/8	3 1/2	Quad.	7/8	3 1/2	Inside straps
SIDE PLATING, No. of StrakesG.....						"	7/8	3 1/2	Treble	7/8	3 5/32	Lapped
UPPER DECK, Sheer- strake in Wells.....	77 1/2	73	46	46		"	7/8	3 1/2	Quad	1	4	Lapped
UPPER DECK, Sheer- strake in Bridge ...			✓									
STRAKE BELOW Sheer- strake in Wells.....		65	46	46		Double	7/8	3 1/2	Treble	7/8	3 5/32	Lapped
STRAKE BELOW Sheer- strake in Bridge ...			✓									
POOP SIDE PLATING			✓									
BRIDGE SIDE PLATING ...			✓									
FOREC'TLE SIDE PLATING			40			Single	3/4	3	Single	3/4	2 5/8	Lapped

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	6 collision bhd to weather deck
„ Deck next below	6 watertight bhd to 2nd deck
As per Rule	6 divisional W.T. bhd in tween decks
	7 for closing openings see page 4

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks	26	5" x 3"	42	30	
„ „ Second „					
„ „ Third „					
„ „ Holds	39	26	12 x 3 1/2	45	30
COLLISION „ (in Hold)	53	29	10 x 3 1/2	44	24
AFTER PEAK „ „	48	75	30	3 1/2 x 3	30

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		✓		
STEM	rolled bar			
STERN FRAME { Propeller Post	Forged scrap iron.	10 1/2 x 8	CMEW	
{ Rudder „	iron.	10 1/2 x 8		
Speed of Vessel		10 1/2 K		
RUDDER—Type	ordinary			
„ A x D		604		
„ Diam. of head	Forged	11 7/8		
„ Mainpiece at top pintle	scrap iron.	11 7/8	CMEW	
„ „ heel ...		8 7/8		
„ how constructed	arms keyed to main piece			✓
„ double or single plate coupling, vertical or horizontal	single vertical			

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	Cargo Fleet Iron Co Ltd., Skinningrove Iron Co Ltd, Dorman Long & Co. Ltd.
	South Durham S. & L. Co. Ltd. American steel.
	Has the Steel been tested as required by the Rules? Yes.

EQUIPMENT No 40053 ✓												LETTER a f	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.				
1409	1st Bower ...	68	1	14	Stockless			52	18	3	0 ✓	68 ✓	Hingleys "Challenge"	N. Hingley & Sons	N. 26-1-42 J. S. Relf. ✓
1414	2nd „ ...	67	2	21	Stockless			52	10	0	0 ✓	68 ✓	" "	"	N. 27-1-42 J. S. Relf. ✓
	3rd „ ...														
	Collective weight.														
55602	Stream	19	0	24	4	3	16	20	1	3	14 ✓	19 ✓	Rodgers Forged W.I.	✓	C.H. 4-12-42 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.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
65998	225	2 5/16	36 1/4	134 3/4	608	2 10	600 5/8	225	2 5/16	stud	Kendrick & Mcl.	C.H. 26-10-42. W.V. Norman.	TOWLINE	120	4 3/4	64.6	120	4 3/4	
							for 225 fms			Emergency requirements.			HAWSERS & WARPS	2-90	2 3/4	15.2	2-90	2 3/4	
													"	2-90	2 1/2	13.2	2-90	2 1/2	
													"						
Stream Chain - Steel Wire	90	5					70.9	90	5										

Steering Gear, Type (Power or hand) *Donkin & Co. Ltd. Steam with telemotor control.* Alternative Means of Steering *Blocks & tackle to winch.*

Steering Chains (Size and Test) ✓ Windlass *Emerson Walker & Co. Ltd Boats*

Ceiling in Holds, thickness and material *2 1/2" wood over bilges* Cargo Battens, thickness, material and spacing *weather deck*

Cargo Hatchways.-(Upper Deck) *Steel plates & angles.* Thickness of Hatches *2 1/2" & 3" at cross bunker.*

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.

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 Secretary'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 tanks forward, aft, & in machinery space have been tested as required by the rules & found satisfactory. The weather decks, watertight bulkheads, tunnel & divisional watertight bulkheads in tween decks have been satisfactorily tested. The assigned freeboards have been marked, verified & cut in on the vessels sides. The windlass & steering gears have been satisfactorily tested under working conditions.

Ship converted for oil fuel New Plan No 106061 & approved plans. 349.

The amount of Entry Fee £ 10 : 0 : 0 Fees applied for, 8/3/ 1943

Special Survey Fee. £ 470 : 6 : 6 Received by me, 19

supervision of spec.

Travelling Expenses, if any £ 18 : 0 : 0

Freeboard

State whether the Vessel has been built under Special Survey Yes

I am of opinion the Vessel should be Classed *# 100A1* with freeboard.

Signature

E. Lee
Surveyor to Lloyd's Register of Shipping.

Certificate sent to *W. Hnl.* Date of issue *16/4/43.*

Committee's Minute

Character assigned

TUES. 16 MAR 1943

+ 100A1

With freeboard

Lloyd's Arch. Off. E.S.D.

+ Lmb 3.43
Spt. H.L. Ch.

note for S.R.L.
Hon.
White Bxw

Lloyd's Register Foundation

6117 2 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 enclosed.

This vessel is of the fabricated "B" type design similar to the "Empire Gato" (William Gray & Co. Ltd No 1138) & previous vessels.

The vessel was wholly constructed by William Gray & Co. Ltd., no pre-fabricated material being used.

Closing of openings in divisional watertight bulkheads in 'tween decks.

The access and tonnage openings in bulkheads 133, 109, 57 & 34 are closed by riveted watertight steel plates.

The openings in bulkheads 14 & 87 are closed by hinged watertight steel doors operated from both sides.

PARTICULARS OF ELECTRIC WELDING (if employed)

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Cruiser stern. Lloyds A2 C.P. 2 decks. D.F. Cargo battens not fitted. Notation about equipment. E.S.D. Collision bulkhead to weather deck. 6 bulkheads to 2nd deck. 5 divisional W.T. bulkheads in 'tween decks. with freeboard.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	2nd "	3rd "	weight incl. pins.	Surveyor's initials.	No of test.	Date of test.
				42-3-4	J. D.	3900	24-12-41
				42-2-12	J. D.	3896	13-12-41

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 39'5" ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated No on upper deck.

Official No. 168952. Signal Letters ✓ Extreme Breadth over Belting (Circ. 1611) ✓ Over-all Length 446'4" (Circ. 1708)

No. and Material of Decks 2 decks steel

Parts of Bottom of Vessel coated with cement or approved composition F & A Peaks & D.B. under boilers cemented Remainder of tanks cement fillets.

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.)

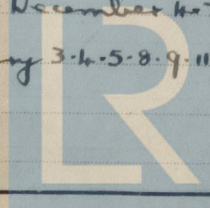
Where Fitted.	Length.	S.W. Water Capacity.	Where Fitted.	Length.	S.W. Water Capacity.
No. 7 D.B. tank only, No. 8 D.B. tank included in deep tank aft.	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	62.0	226	Fore peak tank,	21.50	119
Double bottom, under Engines and Boilers,	46.5	217	After peak tank,	18.00	112
Double bottom, if under Engines only,			Deep tank, aft,	49.08	338
Double bottom, if under Boilers only,			Deep tank, forward,	14.00	248
Double bottom, forward,	209.7	821	Other tanks, if fitted, Wing tanks in mach. space	23.25	398
Total length (if continuous) and Capacity	318.2	1264	(If necessary, furnish further information by sketch.)		1215

Order for Special Survey No. 2457

Date 13/3/42

Dates of Surveys held while building

1942 - May 8. June 9. 11. 25. July 1. 13. 21. 28. August 17. September 3. 21. 24. 30. October 1. 5. 6. 9. 13. 19. 20. 22. 29. November 2. 5. 11. 12. 13. 20. 23. 25. 30. December 4. 7. 11. 14. 16. 18. 20. 21. 23. 30. 31. 1943 - January 4. 11. 15. 18. 19. 20. 21. 22. 25. 27. 29. February 3. 4. 5. 8. 9. 11. 12. 15. 16. 18. 19. 22. 23. 24. 25. 26. 27. March 1. 2. 3



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