

now See Minister
STEEL STEAMER or MOTORSHIP.

1-MAY 1942

Received at London Office

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 *30th April, 1942.*Port of *West Hartlepool.*No. *18281*Survey held at *West Hartlepool*Date First Survey *23rd September, 1941,* Last Survey *23rd April 1942*

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

*Single Screw**"EMPIRE ELGAR"**machinery amidships.*

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

Full Scantling

State Type of Erections

*P.B.F.*TONNAGE under Tonnage Deck... *2530.76*CLASS *+ 100 A.1.*State if with freeboard as condition of Class *No*Built at *West Hartlepool.*

No. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 310'0"*Launched *17th Feb 1942* Yard No. *1130*

Total

Breadth (greatest moulded) *B 46'4"*Builders *William Gray & Co Ltd.*Gross Tonnage *2846.73*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 25'2"*Owners *Ministry of War Transport*Register Tonnage *1695.26*1st Longitudinal Number (L x D) *310 x 24.5 = 7595*Managers *Govan Navigation Co Ltd*

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

2nd Numeral L x (B + D) *310 (46.33 + 24.5) = 21951*Residence *Irving Herts.*REGISTERED DIMENSIONS.
FEET.Length *315.4*Framing Depth "d," at middle of length. See Sec. 3 (1d) *21.42*Port of Registry *West Hartlepool.*Breadth *46.55*Proportions—Depth to Length—Uppermost continuous deck to top of keel *310 24.5 = 12.65*

If surveyed while building, afloat, or in dry dock

Depth *23.00*Do. Long Bridge to top of keel *310 33.4 = 9.25**Building afloat and 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	24	✓	Bracket Floors, Frame	✓	
" " from $\frac{3}{4}$ length amidships to Collision bulkhead.....	24	✓	" " Reversed Frame	✓	
" " in peaks.....	24	✓	" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	34"x.46	✓
Frame Amidships, Angle, E or F	10x3 $\frac{1}{2}$ x $\frac{7}{16}$ to upper dk + alternate to Bridge deck in way of Bridge	✓	" " top Angles	3 3 $\frac{3}{8}$	✓
" " Extends up to			" " bottom Angles	3 $\frac{1}{2}$ 3 $\frac{1}{2}$ $\frac{7}{16}$	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness.....	1- 6x6x $\frac{3}{4}$ $\frac{5}{16}$	✓
" " Extends up to...	✓		Margin Plate depth (excl. of flange) and thickness	29 $\frac{1}{2}$ x.42	✓
Depth of Framing Girder.....	10"	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	3 3 $\frac{3}{8}$	✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	✓		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	5 5 $\frac{3}{8}$	✓
" " Second 'tween Decks, Angle, E or F	✓		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	34 continuous 34 alt.	✓
" " Third " " " "	✓		" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area. See (1d)	34 cont. 34 every	✓
" " from $\frac{1}{4}$ len. for'd. to 15% len. from Stem.....	12 3 $\frac{1}{2}$ $\frac{9}{16}$	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	59x.38	✓
" " in Peaks, Angle or F	7 3 .33	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 - 5/4	✓	Breadth and thickness of Middle Line Strake ...	65 $\frac{1}{2}$ x.40 and 43 under hatches	✓
State if Frame Joggled	Yes		Thickness of remainder in Holds	35 and 43 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, E or F	6 3 $\frac{1}{2}$ $\frac{5}{16}$	✓
Floors, Depth and thickness at mid-line in Holds			" " in way of Bridge, Angle, E or F	7 3 .33	✓
Height of Brackets at side above base line at toe of frame			Spacing	Every	✓
Middle Line Keelson, on Floors, Angles, E or F			Second Deck, amidships, Angle, E or F	✓	
" " Through Plate or Intercoastal Plate			Spacing	✓	
" " 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	6 3 $\frac{1}{2}$ $\frac{5}{16}$	✓
DOUBLE BOTTOM.			Spacing	Every	✓
Solid Floors, thickness and spacing	34 every	✓	Bridge Deck, Angle, E or F	7 3 .33 and 6 3 $\frac{1}{2}$ $\frac{5}{16}$	✓
" " Are Frame and Reversed Frame joggled?	Yes		Spacing	Every	✓
Bracket Floors, breadth and thickness at middle line	None		Forecastle Deck, Angle, E or F	7 3 .33 and 6 3 $\frac{1}{2}$ $\frac{5}{16}$	✓
" " breadth and thickness at margin plate	None		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 " "		one row as approved			Thickness of Plating within line of openings...		✓		
" " " " "					If Sheathed, material and thickness		✓		
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		83½ x .65	✓		If Plated, state thickness		✓		
" " " " in way of Bridge		.40	✓		Poop Deck.				
" Angle in Wells		6 6 .65	✓		Stringer Plate, breadth and thickness .....		.35	30 x .32	
Thickness of Plating abreast Deck openings in way of Wells .....		.65	✓		Plating, Sheathing, material and thickness ...		.30 2½" wood dk		
Thickness of Plating abreast Deck openings in way of Bridge .....		.35 + .30	✓		Bridge Deck.				
Thickness of Plating within line of openings...		.40 .35 .30	✓		Stringer Plate, breadth and thickness.....		65½ x .40		
If Sheathed, material and thickness		none	✓		Plating, Sheathing, material and thickness ...		.35		
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...		✓			Stringer Plate, breadth and thickness.....		.35		
					Plating, Sheathing, material and thickness ...		.30 + .35		

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?		No.		RIVETS.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.		No. of Rows of Rivets.		Diam.	Spacing or to cr.
	Inches.	Inches.	Inches.	Inches.						Inches.	Inches.
FLAT PLATE KEEL	46½	.65	.59	.59	✓	Double	7/8	3½	Double	7/8	3½ lapped
" DBLG. (if any)					✓						
BOTTOM PLATING, No. of Strakes .....		.50	.42	.42	✓	Double	¾	3	Double	¾	2½ lapped
BILGE PLATING, No. of Strakes .....		.50	.70	.42	.42 ends	Double	¾	3	Double	¾	2½ "
SIDE PLATING, No. of Strakes .....		.50	.70	.40	.40 ends	Double	¾	3	Double	¾	2½ "
UPPER DECK, Sheer-strake in Wells.....	65	.65	.40	.40	✓				Quad	7/8	3½ "
UPPER DECK, Sheer-strake in Bridge ...		.50				upper seam Single	¾	3	Double	¾	2½ "
STRAKE BELOW Sheer-strake in Wells.....		.55	.40	.40	✓	Double	7/8	3½	Double	7/8	3½ "
STRAKE BELOW Sheer-strake in Bridge ...		.50				Double	¾	3	Double	¾	2½ "
POOP SIDE PLATING .....				.35 + .33	✓	Single	¾	3	Single	¾	2½ "
BRIDGE SIDE PLATING ...	45 + .80				✓	Single	¾	3	Double	¾	2½ "
FORECASTLE SIDE PLATING			.38		✓	one plate in depth lower seam Single	¾	3	Single	¾	2½ "

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) 5 ✓

" Deck next below

As per Rule 5 ✓

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks					
" " Second "					
" " Third "					
" " Holds .....	.44-.40 .25	10 x 3½ x .507	33"		
COLLISION (in Hold) .....	.46-.26	7 x 3 x .337	24"	Semi box beams	
AFTER PEAK .....	.46-7/8-.30	7 x 3 x .337	26½"		

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar				
STEM				rolled bar 8½ x 2½ ✓
STERN FRAME	Propeller Post			Forged Iron 9½ x 6 CMEN ✓
	Rudder			" " 9½ x 6 " ✓
Speed of Vessel		10½		
RUDDER—Type				ordinary ✓
" A x D		240.6		✓
" Diam. of head		Forged Iron 9"	CMEN	8½ ✓
" Mainpiece at top pintle		"	8½	" ✓
" " heel ...		"	6½	" ✓
" how constructed				arms keyed to mainpiece ✓
" double or single plate				single ✓
" coupling, vertical or horizontal				horizontal ✓

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 & L Co. Dorman Long & Co. Cargo Flat Iron Co. Connell Iron Co. Sharncliffe Iron Co.

Has the Steel been tested as required by the Rules? Yes.

EQUIPMENT No 23209										LETTER <i>u u</i>	ANCHORS.
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE			Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.
26923	1st Bower ...	45	2	21	39	14	1	14	45	✓	Byen Stockless
26930	2nd " ...	45	-	-	"	"	"	"	45	✓	"
	3rd " ...										
	Collective weight.										
54758	Stream	12	1	2	3	0	14	14	1	3	14

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.	Diam.	Tons.	Tons.	Cwts. qrs. lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
64770	119	1 ¹⁵ / ₁₆	64 ¹ / ₂	94 ¹ / ₂	230-1-0	425 ⁵ / ₈ for 225	225	1 ¹⁵ / ₁₆	Stud	Kendrick & Mole Ltd	C.H. 13/2/42 L.E. Paul	TOWLINE...	100	4	44.9	100	4
64771	104 ¹ / ₂	1 ¹⁵ / ₁₆	64 ¹ / ₂	94 ¹ / ₂	201-1-2	fathoms	Emergency Requirment		"	"	C.H. 13/2/42 L.E. Paul	HAWSERS & WARPS }	2-90	2 ¹ / ₂	13.2	2-90	2 ¹ / ₂
	22 3/4						270	1 ¹⁵ / ₁₆						2-90	6"	manilla	2-90	6"
		Cir.						Cir.									
Iron Stream Chain or Steel Wire	90	4 ¹ / ₄		51.5			90	4 ¹ / ₄									

Steering Gear, Type (Power or hand) *Steam + Telemotor control John Lynn & Co* Alternative Means of Steering *Blocks + tackle to launch*

Steering Chains (Size and Test) *✓* Windlass *Emmerson Walker & Co* Boats *1 at 26.5 x 8.5 x 3.5 ft
1 at 27.5 x 8.75 x 3.5 ft
with inboard motor
Cargo battens not fitted
but frames punched for same
charts supplied*

Ceiling in Holds, thickness and material *2 1/2" over bulges* Cargo Battens, thickness, material and spacing *2 1/2". N: 2A hatch = 3" ✓*

argo Hatchways.-(Upper Deck) *Steel plates + angles* Thickness of Hatches *2 1/2".*

Number of Hatchways No. 1 (Fwd.) *24'0" x 22'0" No. 2 34'0" x 24'0" No. 3 5'10" x 16'0" No. 4 34'0" x 24'0" No. 5 24'0" x 22'0" No. 6*

Number of Shifting Beams and/or Fore and Afters *4 6 - 6 4*

Builder's Signature *FOR WILLIAM GRAY & CO. LIMITED,
Hos. 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 + 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 have been tested as required by the Rules + found satisfactory. The weather decks, W.T. Bulk, W.T. doors in stockhold bulkhead + tunnel have been satisfactorily tested. The assigned foreboards have been marked on the vessels' sides verified + cut in. The windlass + steering gears have been satisfactorily tested under working conditions

The amount of Entry Fee £ *6 : - : -* Fees applied for, *(Special notations, where part of class, to be stated.)*

Special Survey Fee. *+ £ 271 : 13 : 9* Received by me, *30/4/1942.*

Supervision of Specification

Travelling Expenses, if any £ *13 : - : -* 19

State whether the Vessel has been built under Special Survey *Yes.* Signature *W. H. L. Aif.*

Certificate to be sent to *W. H. L. Aif.* Date of issue *4/6/42*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 8 MAY 1942*

Character assigned *+ 150 A1
Lloyd's ATCP + LMC H 42
FD CH*

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. "EMPIRE TENNYSON" (Wm Gray & Co N: 1129)

Forging reports attached.

Approved plans of General Angt & General Angt as fitted attached.

This vessel has been fitted as a crane vessel. About 2000 tons of solid ballast has been placed in the holds, access wood trunks being fitted in way of tank top man holes and sections. The No 1 & 4 Hatchways have been altered in length from previous vessels. Ice strengthening has been fitted but the notation of "strengthened for navigation in ice" is not required.

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, Lloyd's A+CP, Cargo battens not fitted, Notation about equipment.
1 deck shell, 5 Bulkheads, D.F.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	Weight in lb. fine	Surveyor's Initials	N ^o of Cert.	Date of Test.
1st Bower	28 - 2 - 0	K.L.	4378	31.10.41
2nd "	28 - 0 - 21	K.L.	4306	8.10.41
3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 32.7 ft., R.Q.D. ft., Bridge 82 ft., Forecastle 33.5 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated *not joined*
Official No. 168938 Signal Letters Extreme Breadth over Belting Over-all Length 327.9 ft.
(Circ. 1811) (Circ. 1703)

No. and Material of Decks 1 dk. steel
Parts of Bottom of Vessel coated with cement or approved composition F+A Peaks, E+B. B.B. tanks & bilges cemented
Remainder of tanks cement filled.
Particulars of composition (if fitted) and of approval pl cement

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.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	106.0	228	Fore peak tank,	16.3	59
Double bottom, under Engines and Boilers, <i>4 aft & 2 under engines</i>	38.0	128	After peak tank,	18.0	113
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	126.0	334	Other tanks, if fitted,		
Total length (if continuous) and Capacity	270.0	690	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 2446

Date. 26/6/41.

Dates of Surveys held while building

1941. Sept. 10. 20. 24. Oct. 2. 3. 7. 13. 16. 20. 24. 27. Nov. 4. 6. 11. 18. 24. 27. Dec. 3. 5. 10. 18. 22.
23. 29. 1942. Jan. 7. 9. 13. 16. 19. 22. 26. 29. Feb. 2. 5. 6. 7. 12. 13. 17. 19. 20. 23. 25. March 2. 3. 4.
8. 11. 12. 16. 17. 18. 19. 20. 21. 26. 27. 30. 31. April 1. 2. 3. 4. 7. 8. 9. 10. 12. 14. 15. 16. 17. 18. 23.

Total No. of Visits 74