

RECEIVED

7 DEC 1944

IN D.O.

## STEEL STEAMER OR MOTORSHIP.

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 *1st December 1944* Port of *West Hantlepool* No. *18605*Survey held at *West Hantlepool* Date First Survey *7-4-44* Last Survey *30-11-1944*On the *Single Screw "EMPIRE BERMUDA"* Machinery aft.State Type *Full scantling with freeboard* State Type of Erections *4 Poop deck*TONNAGE under Tonnage Deck ... *2612.33*CLASS *+100 A.1.* State if with freeboard as condition of Class *Yes*

Do. 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) *312.0*Gross Tonnage *3538.56*Breadth (greatest moulded) *B 46.33*Registered Tonnage *2257.09*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 24.75*1st Longitudinal Number (L x D) *312 x 24.75 = 7722*2nd Numeral L x (B + D) *312 (46.33 + 24.75) = 23177*Framing Depth "d," at middle of length. See Sec. 3 (1d) *21.25 up to deck 26.0 R.Q. dk*Proportions—Depth to Length—Uppermost continuous deck to top of keel *12.6 up to deck 29.55 10.55*Do. Long Bridge to top of keel *20.8 1/2*Draught Moulded *20.8 1/2*Built at *West Hantlepool*Launched *30th Sept. 1944* Yard No. *1173*Builders *William Gray & Co. Ltd.*Owners *Ministry of War Transport*Managers *Joseph C. M. S. Steamship Line Ltd. Middlesbrough*Residence *Middlesbrough*Port of Registry *West Hantlepool*

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.....	<i>24</i>		Bracket Floors, Frame .....	<i>✓</i>	
"    "    from 1/2 length amidships to Collision bulkhead.....	<i>24</i>		"    "    Reversed Frame.....	<i>✓</i>	
"    "    in peaks .....	<i>24</i>		"    "    Vertical Struts .....	<i>✓</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>42 x 42</i>	<i>✓</i>
Frame Amidships, Angle, <i>E or F</i> .....	<i>11 3 1/2 42</i>	<i>✓</i>	"    "    top Angles .....	<i>3 3 40</i>	<i>✓</i>
"    "    Extends up to.....	<i>Upper deck</i>	<i>✓</i>	"    "    bottom Angles.....	<i>3 1/2 3 1/2 44</i>	<i>✓</i>
Reversed Frame Amidships, Angle .....	<i>12 3 1/2 45</i>	<i>✓</i>	Side Girders, No. each side and thickness.....	<i>1- 25 6 3 1/2 40</i>	<i>✓</i>
"    "    Extends up to .....	<i>R.Q. dk.</i>	<i>✓</i>	Margin Plate depth (excl. of flange) and thickness .....	<i>32 x 43</i>	<i>✓</i>
Depth of Framing Girder.....	<i>11 4 12</i>	<i>✓</i>	"    "    Vertical Angle to Tank side Bracket abaft 1/2 len. from stem <i>Panting Area</i> .....	<i>3 1/2 3 1/2 34</i>	<i>✓</i>
Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or F</i> .....	<i>✓</i>		"    "    Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area .....	<i>5 5 34</i>	<i>✓</i>
"    "    Second 'tween Decks, Angle, <i>E or F</i> .....	<i>✓</i>		"    "    Gussets, spacing and scantling abaft 1/2 len. from stem.....	<i>34 continuous</i>	<i>✓</i>
"    "    Third .....	<i>✓</i>		"    "    Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area .....	<i>34 continuous</i>	<i>✓</i>
"    "    from 1/2 len. for'd. to 15% len. from Stem .....	<i>11 3 1/2 46</i>	<i>✓</i>	Tank Side Brackets, height above base line at toe of Frame and thickness	<i>61</i>	<i>✓</i>
"    "    in Peaks, Angle <i>E or F</i> .....	<i>7 3 33</i>	<i>✓</i>	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	<i>7/8 - 6 1/4</i>	<i>✓</i>	Breadth and thickness of Middle Line Strake.....	<i>57 fitted</i>	<i>✓</i>
State if Frame Joggled.....	<i>Yes</i>		Thickness of remainder in Holds .....	<i>as above</i>	<i>✓</i>
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	<i>as approved</i>		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? .....	<i>Yes</i>	<i>✓</i>
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? .....	<i>as approved</i>		BEAMS.		
ANGLE BOTTOM			Uppermost Continuous Deck, amidships in Wells, Angle, <i>E or F</i> .....	<i>5 3 1/2 34</i>	<i>✓</i>
Floors, Depth and thickness at mid-line in Holds.....			"    "    in way of Bridge, Angle, <i>E or F</i> .....	<i>8 3 34</i>	<i>✓</i>
Height of Brackets at side above base line at toe of frame.....			"    "    Spacing .....	<i>Every 4' Large brackets in way of frame</i>	<i>✓</i>
Middle Line Keelson, on Floors, Angles, <i>E or F</i> .....			<i>R.Q. dk</i>		
"    "    Through Plate or Inter-costal Plate .....			Second Deck, amidships, Angle, <i>E or F</i> .....	<i>5 3 34</i>	<i>✓</i>
"    "    Foundation Plate on Floors .....			"    "    Spacing .....	<i>Every 4' Large brackets in way of frame</i>	<i>✓</i>
"    "    Flat Plate Keel Angles .....			<i>R.Q. dk</i>		
Side Keelsons, No. each side.....			Third Deck, amidships, Angle, <i>E or F</i> .....	<i>8 3 34</i>	<i>✓</i>
"    "    thickness of Intercoastal Plate.....			"    "    Spacing.....	<i>Every 4' Large brackets in way of frame</i>	<i>✓</i>
"    "    Angles .....			Fourth Deck, amidships, Angle, <i>E or F</i> .....	<i>✓</i>	
DOUBLE BOTTOM.			"    "    Spacing.....	<i>✓</i>	
Solid Floors, thickness and spacing .....	<i>34 every</i>	<i>✓</i>	Poop Deck, Angle, <i>E or F</i> .....	<i>6 3 43</i>	<i>✓</i>
"    "    Are Frame and Reversed Frame joggled? .....	<i>Frame Yes Reversed No</i>	<i>✓</i>	"    "    Spacing.....	<i>Every 4' Large brackets in way of frame</i>	<i>✓</i>
Bracket Floors, breadth and thickness at middle line .....	<i>✓</i>		Bridge Deck, Angle, <i>E or F</i> .....	<i>✓</i>	
"    "    breadth and thickness at margin plate.....	<i>✓</i>		"    "    Spacing.....	<i>✓</i>	
			Forecastle Deck, Angle, <i>E or F</i> .....	<i>6 3 32</i>	<i>✓</i>
			"    "    Spacing.....	<i>Every 4' Large brackets in way of frame</i>	<i>✓</i>



## 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 ..... <i>Trunk Deck</i>	.50	✓		
" " " " " " .....		✓			Thickness of Plating abreast Deck openings in way of Bridge.....	✓			
" in Holds " " " " " " .....		✓			Thickness of Plating within line of openings...	.32 in way of bridge house 1.0 + .50			
" " " " " " .....		✓			If Sheathed, material and thickness.....	unsheathed	✓		
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	85½ x .61	✓			If Plated, state thickness.....	✓			
" " " " " in way of Bridge	✓				Poop Deck.				
" Angle in Wells .....	6 6 .61	✓			Stringer Plate, breadth and thickness.....	.40 ½ .32	✓		
Thickness of Plating abreast Deck openings in way of Wells ..... <i>Trunk Deck</i>	.56	✓			Plating, Sheathing, material and thickness ...	.32 ½ .30	✓		
Thickness of Plating abreast Deck openings in way of Bridge.....	✓				Bridge Deck.				
Thickness of Plating within line of openings...	1.0, .56, .50	✓			Stringer Plate, breadth and thickness.....	✓			
If Sheathed, material and thickness.....	unsheathed	✓			Plating, Sheathing, material and thickness ...	✓			
R.Q. Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells	85½ x .47	✓			Stringer Plate, breadth and thickness.....	.32	✓		
					Plating, Sheathing, material and thickness...	.32	unsheathed	✓	

## SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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.....A✓	46½	65	59	59		Double	7/8	3 3/8	Double	7/8	3 3/8	Lapped	
„ Dblg. (if any)													
Bottom Plating, No. of Strakes B.C.D. (3)✓		53	44	44		Double	7/8	3 3/8	Double	7/8	3 3/8	"	
Bilge Plating, No. of Strakes E (1)✓		53	44	44		"	7/8	3 3/8	"	7/8	3 3/8	"	
Side Plating, No. of Strakes F (1)✓		52	43	43	X Fitted 58	"	7/8	3 3/8	"	7/8	3 3/8	"	
Upper Deck, Sheer-strake in Wells...H✓	82½	65	43	43	in line of stringers				Quard	1	4	"	
Upper Deck, Sheer-strake in Bridge...K✓		52	-	43		Double	7/8	3 3/8	Double	7/8	3 3/8	"	
Strake below Sheer-strake in Wells...G✓		56	43	43		"	7/8	3 3/8	"	7/8	3 3/8	"	
Strake below Sheer-strake in Bridge...L✓		52		43		"	7/8	3 3/8	"	7/8	3 3/8	"	
Poop Side Plating.....			51-34			Single	7/8	3	Double to single	7/8	3 3/8	"	
R. & L. D <sup>K</sup> strake.	62	58	-	43		✓			Double	7/8	3 3/8	"	
Bridge Side Plating.....													
Forecastle Side Plating			38			Single	7/8	3	Single	7/8	3 3/8	"	

## WATERTIGHT BULKHEADS.

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

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

„ Deck next below.....

As per Rule.....

634 for record see page  
4 under S.P.  
Nob. 100

5 ✓

5

26.2

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		✓		
STEM	rolled bar	$8\frac{1}{2} \times 2\frac{1}{2}$	✓	
STERN FRAME	Propeller Post	Forged iron	$9\frac{1}{2} \times 6$	CMSW
	Rudder	" "	$9\frac{1}{2} \times 6$	"
Speed of Vessel	under 12 knots	✓		
RUDDER—Type	ordinary	2 pintles	✓	
"	A × D	270	✓	
"	Diam. of head	Forged iron	$8\frac{1}{8}'' \pm 10\% = 8\frac{1}{2}''$	
"	Mainpiece at top pintle	wrapper plate	10" dia.	✓
"	" heel	"	see plan	
"	how constructed	welded	✓	
"	double or single plate	double	✓	
"	coupling, vertical or horizontal	vertical	✓	

			Plating Thickness.	STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D,	Upper 'tween decks						
"	"	Second	"				
"	"	<del>Third</del>	"				
"	"	Holds .....	"				
COLLISION	"	(in Hold) .....	"				
AFTER PEAK	"	" .....	"				

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 & I Co, Cargo Fleet Iron Co, Skinningrove Iron Co,*  
*Conssett Iron Co, Doorman Long & Co,*

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



EQUIPMENT No. 24049 ✓												LETTER H ✓		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.					
45248	1st Bower	45	1	16	65	0	16	39	11	1	0	✓	45 ✓	Byers Imp. Studlers	✓	Sd 15/3/44 R. J. Fagan
45328	2nd "	45	0	21	"			39	8	0	14	✓	45 ✓	" "	✓	Sd 25/3/44 R. J. Fagan
	3rd "												38			
	Collective weight							See letter	18	12	14		128			
59009	Stream	12	1	7	3	0	14	14	4	0	4	✓	12 ✓	Rodgers Jorged von	✓	C.H. 22/11/44 W. 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.	Status.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.		
68999	225 5/8	1 15/16	6 1/2	9 1/2	440 - 0 - 1	425 for	270	1 15/16	Stud	Kendrick + Mole Ld.	C.H. 31/10/44 W. Norman	LOWLINE	100	4 1/2	33.2	100	4 1/2		
						225 for Emergency requirements								90	4 1/2				
												HAWSERS & WARPS	2-90	2 1/2	13.2	2-90	2 1/2		
														2-75	2 1/2				
													4-90	6" manilla		2-90	2 1/2		
													2-75	3"	18.6				
		Cir.						Cir.											
Less Stream Chain or Steel Wire	90	4 1/4		36.4			90	4 1/4											

Steering Gear, Type (Power or hand) John Hastie & Co Ltd. Steam + L.L. Control Alternative Means of Steering Blocho & tackle to winch

Steering Chains (Size and Test) Windlass Emman Walker & Co Ltd Boats 1st class 26' 8" 6" 3" 6"

Ceiling in Holds, thickness and material 2 1/2" over bilges Cargo Battens, thickness, material and spacing Provision made to take vert. spanning necessary fittings provided. Jumper not supplied

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

Size of Hatchways No. 1 (Fwd.) 24' 9" x 20' 0" No. 2 24' 9" x 26' 0" No. 3 40' 6" x 26' 0" No. 4 22' 6" x 26' 0" No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters 4 4 6 3

Builder's Signature FOR WILLIAM GRAY & CO. LIMITED, No. 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. *yes*

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo. *Vessel arranged for carriage of oil.* 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 built in conformity with the Society's rules & regulations and the Secretary's letters. The scantlings & arrangements are in accordance with, or equivalent to, those shown on the approved plans. The materials of the workmanship are good. All double bottom tanks, S.B. Cofferdams, peak & deep tanks have been tested as required by the rules & found satisfactory. The weather decks and watertight bulkheads have been satisfactorily tested. The assigned freeboards have been marked on the vessel's sides, verified & cut in. The windlass & steering gear have been satisfactorily tested under working conditions.*

*The requirements of Section 20 of the Rules for steel ships, where applicable, for the carriage of oil fuel having a flash point above 150°F have been carried out. oil fuel is carried in Nos 2, 3, 4 & 5 S.B. tanks.*

The amount of Entry Fee £ 7 :-

Special Survey Fee... and Supervision of Specification £ 3/4 18:9

Travelling Expenses, if any £ 14 :-

Fees applied for, 5/12/1944

Received by me, 19

I am of opinion the Vessel should be Classed +100 A1 with freeboard

Signature W. J. Fagan

Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey Yes

Certificate to be sent to W. N. P. Date of issue 9/2/45

Committee's Minute

Character assigned +100 A1 with freeboard

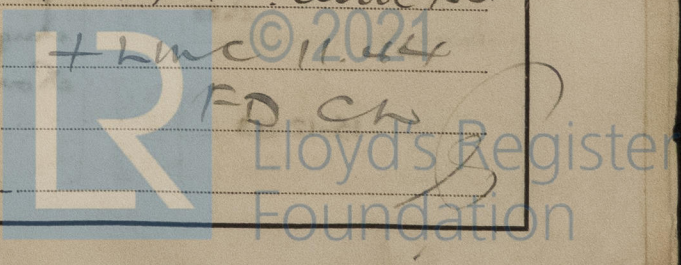
Fitted for oil fuel 11.44 F.P. above 150°F

Lloyd's Register

White NPL

0206 2/2

The Surveyors are requested not to write 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.)

Vessel similar to "Empire Labrador" & previous similar vessels.  
Forging reports attached

#### Permanent Ballast

50 tons of permanent ballast cemented in on top has been fitted in each of the side ballast tanks making 100 tons in all.  
Access to sections & valves has been arranged.

The vessel is fitted with an 80 ton derrick aft and a 50 ton derrick forward.

#### Carriage of Crude Oil

Provision has been made for the adequate and continuous ventilation of the holds & the ventilator openings have been fitted with wire gauze.

#### PARTICULARS OF ELECTRIC WELDING (if employed)

Seams & hulls of inner bottom plating electric welded clear of Engine & boiler room.  
Approved welding rods used.  
Bilge keel T bar welded to shell.

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

Square cruiser stern, Lloyd's A.C.P., Notation about equipment, 1 dk still, 5 Bulkheads to upper deck, 1 bulkhead to 2nd deck. Cargo battens not fitted. Fitted for oil fuel F.P. above 180°F.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	2nd	3rd	wt and length	Surveyor's Initials	No of Cnt.	Date of Test
				28.0.23	J.H.T.	6031	24.12.43.
				28.3.7	J.H.T.	6054	14.1.44.

#### PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 82.25 ft. R.Q.D. 197 ft., Bridge 197 ft., Forecastle 29 ft.

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

Official No. 180078 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 328' (Circ. 1703)

No. and Material of Decks 1 dk. still.

Parts of Bottom of Vessel coated with cement or approved composition Bilges & peaks cemented. Cement fillets fitted in D.B. oil fuel tanks (Nos 2, 3, 4 & 5). Cement covering rivet heads in bottom frames in Nos 1 & 6 D.B. tanks

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,	27' 1"	228
Double bottom, under Engines and Boilers, 44 tons F.W. 38' 11" L.W.	51' 9"	108	After peak tank,	16' 3"	44
Double bottom, if under Engines only,			Deep tank, aft, Ballast p.s.	36' 0"	308
Double bottom, if under Boilers only,			Deep tank, forward, F.W. p.s.	18' 0"	35
Double bottom, forward,	213' 9"	747	Other tanks, if fitted,		
Total length (if continuous) and Capacity	265' 6"	856	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 2488  
Date 15-12-43  
Dates of Surveys held while building  
1946. April 7, 11, 17. May 2, 5, 8, 15, 22, 23, 25, 30. June 8, 13, 22. July 6, 10, 18, 21, 24. August 17, 22, 28, 30. Sept 5, 6, 8, 12, 14, 22, 25, 26, 27, 30. Oct 6, 13, 16, 23, 24, 30. November 1, 8, 9, 10, 11, 17, 20, 21, 23, 24, 25, 27, 30.

