

RECEIVED

25 JUL 1944

IN D.O.

STEEL STEAMER OR MOTORSHIP.

24 JUL 1944

Received at London Office

State if Report has been sent on the Freeboard of the Vessel yesState if Report is sent on the Machinery of the Vessel yesDate of completion of report 22nd July 1944 Port of Sunderland No. 33997Survey held at Sunderland Date First Survey 12th May 1942 Last Survey 21st July 1944On the (State if Machinery fitted As per if Single, Twin or Triple Screw) Single screw "EMPIRE TUDOR" machinery amidshipsState Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Intermediate between 4.5 & C.S.S. State Type of Erections Fore & after deckTONNAGE under Tonnage Deck ... 6603.29Do. of space or spaces between Tonnage Dk. and Upper Dk. ✓

Total

Gross Tonnage 7086.51Register Tonnage 4908.14

REGISTERED DIMENSIONS.

FEET

Length 429.8Breadth 56.3Depth 35.2CLASS 100 A.1.State if with freeboard as condition of Class yesLength from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) 423.875Breadth (greatest moulded) B 56.00Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 37.671st Longitudinal Number (L x D) 151532nd Numeral L x (B + D) 38890Framing Depth "d," at middle of length. See Sec. 3 (1d) 23.3Proportions—Depth to Length—Uppermost continuous deck to top of keel 11.25Do. Long Bridge to top of keel ✓Draught Moulded 26.75/8Built at SunderlandLaunched 23rd May 1944 Yard No. 2Builders Shipbuilding Corporation Ltd. (Wear Branch) SunderlandOwners Ministry of War TransportManagers W. J. Yates Ltd. (Where necessary to be entered in Reg. Book)Residence 45 St. Helens Place London EC.3Port of Registry Sunderland

If surveyed while building, afloat, or in dry dock

While building

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 1/2 length amidships to Collision bulkhead	24	✓	" " 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 x 3 1/2 x 3 1/2 x 32.9/16 L	✓	" " top Angles	3 1/2 x 3 1/2 x 48	✓
Extends up to	ALTS & H.E. BEAMS	✓	" " bottom Angles	4 x 4 x 54	✓
1/4" ON 6 HOLD & DEEP TANK AT NO. 6	10 x 3 1/2 x 48 L	✓	Side Girders, No. each side and thickness	ONE	
Reversed Frame Amidships, Angle	✓		Margin Plate depth (excl. of flange) and thickness	36 x 54	✓
Extends up to	ALTS & H.E. BEAMS	✓	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	6 x 6 x 44	✓
Depth of Framing Girder	✓		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	BRACKET WELDED TO TANK TOP.	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6 x 3 1/2 x 7/16 L	✓	" " Gussets, spacing and scantling abaft 1/4 len. from stem	14 x 42 CONTINUOUS	✓
" " Second 'tween Decks, Angle, [or]	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	AT PANTING AREA 17 x 42 CONT.	✓
" " Third	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	14 x 42 CONTINUOUS	✓
" " from 1/2 len. for'd. to 15% len. from Stem	12 x 3 1/2 x 3 1/2 x 32.9/16 L	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	95 x 44	✓
" " in Peaks, Angle or [15 x 4 x 4 x 42 L	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	8 x 3 1/2 x 35 L TO UPPER DK. FOCSE ON ALTS.	✓	Breadth and thickness of Middle Line Strake	7 1/4 x 52	✓
State if Frame Joggled	yes	✓	Thickness of remainder in Holds	44, 52, 1/2 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	8 x 3 1/2 x 46 L	✓
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	EVERY FRAME	✓
Middle Line Keelson, on Floors, Angles, [or]	✓		Second Deck, amidships, Angle, [or]	9 x 3 1/2 x 38 L	✓
" " Through Plate or Inter-costal Plate	✓		Spacing	EVERY FRAME	✓
" " 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 Intercoastal Plate	✓		Spacing	✓	
" " Angles	✓		Poop Deck, Angle, [or]	✓	
DOUBLE BOTTOM.			Spacing	✓	
Solid Floors, thickness and spacing	42 EVERY FRAME	✓	Bridge Deck, Angle, [or]	✓	
" " Are Frame and Reversed Frame joggled?	CUT AT JOGGLE	✓	Spacing	✓	
Bracket Floors, breadth and thickness at middle line	✓		Forecastle Deck, Angle, [or]	9 x 3 1/2 x 42 L TO 6 x 3 x 42 L	✓
" " breadth and thickness at margin plate	✓		Spacing	EVERY FRAME	✓

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	ONE ✓		Stringer Plate, breadth and thickness in way of Bridge	✓
" " " " " " in 'tween Decks, Size and Spacing	✓		Thickness of Plating abreast Deck openings } in way of Walls36 ✓
" " " " " "	✓		Thickness of Plating abreast Deck openings } in way of Bridge.....	✓
" " " " " " in Holds	✓		Thickness of Plating within line of openings....	.34 ✓
" " " " " " TWEEN DECKS { Centre Line Bulkhead. Stiffeners and Spacing HOLDS.....	5x3+32 OA. 6 7x3+9/8 L @ 2 FR SPACES 12x3 1/2 x 30 g lbs L @ 2 FR. SPACES .26 ✓ HOLDS .30 ✓		If Sheathed, material and thickness.....	✓
Plating, thickness of TWEEN DECKS HOLDS.....	.26 ✓ .30 ✓		Third Deck. Stringer Plate, breadth and thickness.....	✓
STRINGERS AND DECKS.			If Plated, state thickness	✓
Uppermost Continuous Deck.			Fourth Deck. Stringer Plate, breadth and thickness.....	✓
Stringer Plate, breadth and thickness in Wells	65 1/2 x 65 ✓		If Plated, state thickness.....	✓
" " " " " " in way of Bridge	✓		Poop Deck. Stringer Plate, breadth and thickness.....	✓
" " " " " " Angle in Wells	6 x 6 x .60 ✓		Plating, Sheathing, material and thickness ...	✓
Thickness of Plating abreast Deck openings } in way of Walls60 .8 .55 ✓		Bridge Deck. Stringer Plate, breadth and thickness.....	✓
Thickness of Plating abreast Deck openings } in way of Bridge.....	✓		Plating, Sheathing, material and thickness ...	✓
Thickness of Plating within line of openings...	.40 ✓		Forecastle Deck. Stringer Plate, breadth and thickness.....	.33 WELDED TRANSV ✓
If Sheathed, material and thickness.....	✓		Plating, Sheathing, material and thickness...	.50 UNDER W' LASS ✓
Second Deck. Stringer Plate, breadth and thickness in Wells	82 1/2 x .38 ✓			

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?..... NO.	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 7/8	3R	7/8	4	DOUBLE STRAPS ALTN WELDED	
„ Dblg. (if any)	✓												
Bottom Plating, No. of Strakes A B C D		.60 .65 .65 .64	.70 .70 - .56	.52 .50 - .50		DOUBLE RIVETED AMIDSHIPS WELDED AT ENDS	7/8	3 7/8	4R. AMIDSHIPS WELDED AT ENDS	7/8	3 1/2	0" INSIDE STRAPS A.B.C. LAPPED AMIDSHIPS	
Bilge Plating, No. of Strakes E		.65 .64	.56 .50	.50		do	7/8	3 7/8	do	7/8	3 1/2	INSIDE STRAPS	
Side Plating, No. of Strakes F G H		.60 .65	.56 .56	.48 .50		do	7/8	3 7/8	3R. AMIDSHIPS WELDED AT ENDS	7/8	3 5/32	LAPPED AMIDS.	
Upper Deck, Sheer- strake in Wells.....	77 1/2	.73	.46	.50		do	7/8	3 7/8	4R. AMIDSHIPS WELDED AT ENDS	1	4	do	
Upper Deck, Sheer- strake in Bridge ...	✓								3R. AMIDSHIPS				
Strake below Sheer- strake in Wells.....	83 1/4	.65	.46	.46		do	7/8	3 7/8	WELDED AT ENDS	7/8	3 7/32	do	
Strake below Sheer- strake in Bridge ...	✓												
Poop Side Plating.....	✓												
Bridge Side Plating....	✓												
Forecastle Side Plating			42			WELDED			WELDED.				

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— *For record: 7 BH (Cell 6 Wdk, 6 to 2nd dk) 6*
 Extending to, Upper Deck (Sec. 3 c) *diagonal W.T. BHs in two decks.* (7) 1
 „ Deck next below (7) 6
 As per Rule 7

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar		✓		
STEM		10×2½ ✓		
STERN FRAME {	Propeller Post	FABRICATED BY ELECTRIC WELDING		
	Rudder „	COLVILLE'S CONSTRUCTIONAL CO. LTD.		
Speed of Vessel		11 KNOTS ✓		
RUDDER—Type		BALANCED ✓		
„ A × D		✓		
„ Diam. of head		9½ ✓		
„ Mainpiece at top pintle		12 ✓		
„ „ heel		9½ ✓		
„ how constructed		FORGED STEEL ✓		
„ double or single plate coupling, vertical or		DOUBLE		
„ horizontal		HORIZONTAL		

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D, Upper 'tween decks	.26	5x3x.42	30	✓	✓
"	" Second "	✓				
"	" Third "	✓				
"	" Holds NO 87	.45-.26	12x3½x3½x32.9	30	✓	✓
COLLISION	" (in Hold) NO 161	.52-.30	10x.44 8 P WELDED	24	F.P.T.T & 2.58 BEAMS	
AFTER PEAK	" NO 9	.46-.30	7x3½x¾ W.T.O.D.M.	24	6.2.58 BEAMS 2-7x3½x¾ W.T.O.	

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth*
Messrs Dorman Long, South Durham, Appley, Gt. Grimsby, Consett
and Skinningrove
Has the Steel been tested as required by the Rules? *Yes* ✓

EQUIPMENT No. 40172												LETTER at		ANCHORS.				
Number of Certificate.	Anchor	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.						
44985	1st Power	68	3	0	✓			53	1	3	14	✓	68	STOCKLESS	W & Byn & Co. L.P.H.S	6-1-44 R.J.V	✓	
44981	2nd "	68	2	21	✓			53	1	3	14	✓	68	do	do	L.P.H.S	6-1-44 R.J.V	✓
	3rd "												58 1/2					
	Collective weight												194 1/2					
45014	Stream	24	1	21	✓	✓		24	6	1	0	✓	23 3/4	STOCKLESS	W & Byn & Co. L.P.H.S	11-1-44 R.J.V	✓	

CHAIN CABLES.										HAWERS 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.	Stain.	Break.	Supplied.	Per Rule.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.
22566	225 3/4	2 5/8	96 5/8	134 5/8	613 - 0 - 14	720 3/4			270	2 5/8	STUD	W. & B. & Co. Ltd.	L.P.H.S. 10-1-44 R.J.V.	TOWLINE	120	4 3/4	64.6	120	4 3/4
														HAWERS & WARPS	2090	2 3/4	15.2	2090	2 3/4
															2090	2 1/2	13.2	2090	2 1/2
															90	4 3/4	64.6		
															2075	3 1/4	21.7		
															as per specification				

Steering Gear, Type (Power or hand) *Donkin (steam)* Alternative Means of Steering *Block and tackle from warping winch*

Steering Chains (Size and Test) *Hydramotor controlled* Windlass *Emerson Walker* Boats *1 @ 26 ft 42 persons, 1 @ 26 ft 38 ft (motor), 1 @ 24 ft 35 persons, 1 @ 24 ft 34 do*

Ceiling in Holds, thickness and material *2 1/2 W.W. at bilges only* Cargo Battens, thickness, material and spacing *not fitted cleats supplied*

Cargo Hatchways.—(Upper Deck) *Steel plates and angles (recessed)* Thickness of Hatches *2 7/8 at all hatches*

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

Number of Shifting Beams *5* *5* *5* *5* *5* *5*

Builder's Signature *For and on behalf of*
SHIPBUILDING CORPORATION LTD,
 (WEAR BRANCH)
JOSEPH L. THOMPSON & SONS, LTD., *A. Hunter*
 Managing Agents, 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 ship has been built in conformity with the Society's rules and Regulations and the Secretary's letter. The scantlings and arrangements are in accordance with or equivalent to those shown on the approved plans. The materials and workmanship are good and pre-fabricated materials have been embodied in the vessel. The double bottom, fore and after peak, and deep tanks, have been tested under water pressure and found good. The decks, upper, second and fore-castle, the casings, bulkheads, tunnel and W.T. doors have been hose tested and found good. The steering gear, secondary means of steering, and windlass have been tested whilst moored in the river. The bilge suction and hand pumps have been tested and found good. Cargo battens have not been fitted but the cleats supplied. The third lower anchor has not been supplied. Hatch covers have been fitted at second deck hatches except at nos 1 & 6. The freeboard markings have been verified and cut in on the vessel's side.

The amount of Entry Fee..... £ 10 : : : Fees applied for, *22 JUL 1944* (Special notations, where part of class, to be stated.)

Special Survey Fee..... £ 377 : 3 : 4
Specification 94 6
Freeboard 18
 Travelling Expenses, if any..... £ : : : Received by me, 19

I am of opinion the Vessel should be Classed *100 A.1.*
(With freeboard)

State whether the Vessel has been built under Special Survey

Signature *R. M. Liban*
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *SUNDERLAND.*

Date of issue *16/9/44*
FRI. 28 JUL 1944

Committee's Minute

Character assigned

+100A1 with freeboard
Lloyd's A.C.P. + L.M.C. 7.44
J.D.C.L.

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Lloyd's Register Foundation

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 VESSELS:—S.S. "EMPIRE TRAIL" SUNDERLAND REPORT NO. 33861

S.S. "EMPIRE GLADSTONE" do do do 33947

The following pre-fabricated parts have been embodied in the vessel:—
Centre girder, keel, floor, bulkheads, tank margin, bilge gussets, bilge brackets, hatch coamings, strongbeams, shell plates, tank top, deck plating, side frames, deck beams, bulb angle intercostals, intercostals under engine & boilers, hatch beams, deck girders, engine and boiler casings, saloon and bridge, boat deck and side houses, G.W. tanks, tunnel, strongbeam and side webs, stringer angles, coal hatches, galley and engine room skylights, masts and derrick posts.

The requirements of Circular M.S. 972/42 have not been carried out in this vessel.

PARTICULARS OF ELECTRIC WELDING (if employed) Alternate butts of keel welded, butts and seams of fore & after end shell (clear of pre-fabrication) welded, W.T. stiff brackets and tank side gusset plate welded to tank top. Second deck stringer chocks welded to shell and deck, tank top plating at fore and after ends welded to shell, tank side brackets, and floor in way of same at fore and after ends welded to tank top. Seams and butts of deep tank bulkheads welded, butts and seams of upper and second decks at fore & after ends and fore-castle deck welded, small hatches and ventilator coamings welded to deck.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. D.F. E.S.D.
"SIX DIVISIONAL W.T. BULKHEADS IN 'TWEEN DECKS'" "FORE & AFTER ENDS OF SHELL WELDED"

Particulars of Drop Test of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	44-2-7	J.H.J.	5685	12-6-43
2nd "	44-2-21	J.H.J.	5677	4-6-43
3rd "	16-2-14	A.E.G.	5191	27-8-43

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Fore-castle 39.5 ft.

(in feet and tenths). When the Poop or Fore-castle are joined to the B.D., this should be distinctly stated. ☒
Official No. 180139 Signal Letters ☒ Extreme Breadth over Belting ☒ Over-all Length 450'-0" (Circ. 1611) (Circ. 1703)

No. and Material of Decks 2 Decks (steel)

Parts of Bottom of Vessel coated with cement or approved composition Cement in double bottom tanks, peak tanks and bilges

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,	62.0	230	Fore peak tank,	22.0	159
Double bottom, under Engines and Boilers,	46.5	220	After peak tank,	18.0	93
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, aft, in way of tunnel	49.08	382
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, forward,	14.00	257
Double bottom, forward,	209.75	849	Other tanks, if fitted, AT ENGINE ROOM SIDES.	23.25	373
Total length (if continuous) and Capacity	318.25	1299	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 6061

Date 23.9.42

Dates of Surveys held while building

1942. Nov. 12. 16. 1943. May 16. 20. 30. Oct. 7. 12. 13. 19. 20. 22. 29. May 22. 28. 31. June 3. 8. 22. July 4. 20. 22. Aug. 4. 9. 19. Sep. 2. 6. 9. 14. 23. 30. Oct. 11. 14. 25. Nov. 5. 11. 16. 19. 21. 30. Dec. 2. 10. 1944. Jan. 3. 4. 5. 11. 18. 21. 26. 27. Feb. 2. 7. 11. 14. 18. 23. May 2. 3. 6. 7. 9. 10. 15. 16. 1. 18. 23. 28. Apr. 4. 12. 14. 17. 18. 23. 26. 27. 28. May 4. 5. 8. 10. 11. 12. 16. 17. 18. 19. 20. 22. 23. 24. 25. 26. 30. 31. June 1. 2. 3. 7. 8. 9. 12. 22. 23. 26. 27. 28. 30. July 1. 5. 6. 7. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 18. 19. 20. 21.

Total No. of Visits 124