

STEEL STEAMER OR MOTORSHIP.

Received at London Office

27 JUL 1945

Date of completion of report

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

17th July 1945

Port of West Hartlepool

No. 18670

Survey held at West Hartlepool

Date First Survey

20th Jan 1944

Last Survey

14th Jan 1945

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

Single Screw

EMPIRE EDDYSTONE

Machinery amidships

Forecables and

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

Complete Superstructure without Tonnage opening

State Type of Erections

Sunk Poop

TONNAGE under Tonnage Deck ...

6676.33

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

Total

Gross Tonnage

7317.88

Register Tonnage

5115.24

CLASS +100A.1.

State if with freeboard as condition of Class

Yes

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

L 425'-0"

Breadth (greatest moulded)

B 56'-0"

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

D 38'-0"

1st Longitudinal Number (L x D) 425 x 37

15725

2nd Numeral L x (B + D) 425 (56 + 37)

39525

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

21.83

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

11.18

Do. Long Bridge to top of keel

Draught Moulded 26'-9" - 1 1/2" for keel =

26'-7 1/2"

Built at West Hartlepool

Launched 11th May 1945 Yard No. 1176

Builders William Gray & Co Ltd.

Owners Ministry of War Transport

Managers Messrs. Evan Thomas Radcliffe & Co., (Where necessary to be entered in Reg. Book)

Residence

Port of Registry West Hartlepool

If surveyed while building, afloat, or in dry dock

Building afloat in dry-dock

REGISTERED DIMENSIONS.

FEET

h 431.3

lth 56.2

1 35.6

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	36"		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 3 1/2 5/8		" " top Angles	3 1/2 3 1/2 .48	
" " Extends up to 2 nd deck and every 3 rd frame to upper deck			" " bottom Angles	4 4 .54	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	2 7 3 1/2 x .42	Plate in intercostal spaces E & B for 9 1/2 length
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	.56	
Depth of Framing Girder	12"		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem		margin plate welded to shell floor + tank side brackets
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	6 3 1/2 .44	angle with 12 3 1/2 7/8 R.A. every 3 rd	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area		
" " Second 'tween Decks, Angle, [or]			" " Gussets, spacing and scantling abaft 1/2 len. from stem	14" x .42	flg
" " Third			" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	14" x .42	flg
" " from 1/2 len. for'd. to 15% len. from Stem	12 3 1/2 7/8		Tank Side Brackets, height above base line at toe of frame and thickness	9-3 1/2 x .48	
" " in Peaks, Angle or [8 3 1/2 .35		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	See 7/8 3 1/2 6"		Breadth and thickness of Middle Line Strake	.46 in holds	
State if Frame Joggled	Yes		Thickness of remainder in Holds	.54 under last 1000 ft	letted at amidships and welded
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	15 x 4 x 4 x .41	1.62 with rider or reverse angle as per plan.
Floors, Depth and thickness at mid-line in Holds			" " Wells, Angle, [or]	and 12 x 4 x 4 x .50	60 transverse
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, [or]	9" o' apart	
Middle Line Keelson, on Floors, Angles, [or]			" " Spacing	Long beams 6 x 3 1/2 x .40	3-1 1/2 to 3-7 1/4 apart
" " Through Plate or Inter-costal Plate			Second Deck, amidships, Angle, [or]	14 x 1 1/2 x .31	cantilever beams every three frames
" " Foundation Plate on Floors			" " Spacing	Long beams 7 x 3 x .40	3-2 1/4 to 3-9 1/4 apart
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [or]		
Side Keelsons, No. each side			" " Spacing		
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle, [or]		
" " Angles			" " Spacing		
DOUBLE BOTTOM.			Bridge Deck, Angle, [or]		
Solid Floors, thickness and spacing	.42 every frame		" " Spacing		
" " Are Frame and Reversed Frame joggled?	Frames Yes		Forecastle Deck, Angle, [or]		
" " Reversed " "	No		" " Spacing		
Bracket Floors, breadth and thickness at middle line					
" " breadth and thickness at margin plate					

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		✓		
" 31 in 'tween Decks, Size and Spacing		✓			Thickness of Plating abreast Deck openings in way of Wells40	✓		
" " " " " "		✓			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.....	unsheathed	✓		
Centre Line Bulkhead.					Third Deck.				
Stiffeners and Spacing	Holds ✓	10	3½	¾ 4'-6" apart	Stringer Plate, breadth and thickness.....		✓		
Plating, thickness of30	✓		If Plated, state thickness		✓		
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....		✓		
Stringer Plate, breadth and thickness in Wells	90¼ ×	.70	✓		If Plated, state thickness.....		✓		
" " " " in way of Bridge		✓			Poop Deck.				
" Angle in Wells	6	6	.68	✓	Stringer Plate, breadth and thickness.....	.54	✓	.42	✓
Thickness of Plating abreast Deck openings } in way of Wells65 + .70	✓			Plating, Sheathing, material and thickness {	.42 + .36 2½" wood	✓		✓
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.....	2½" wood at after end over accommodation	✓			Plating, Sheathing, material and thickness ...		✓		
Second Deck.	See letter 8.8.45				Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells	90¼ .44	✓			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.			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.....	55 3/8	.80	.70	.70		Double	7/8	3 1/2	Welded			
„ Dblg. (if any)												
Bottom Plating, No. of Strakes 3..	A 3/8	.64	.50	.50	and .75 + .70 in flat of bottom forward.	Double	7/8	3 1/2	Quadr	7/8	3 1/2	Lapped
Bilge Plating, No. of Strakes 2..	B 3/8	.68	.50	.50		Double	7/8	3 1/2	Quadr	7/8	3 1/2	Strapped
Side Plating, No. of Strakes 2..	F 3/8	.68	.46	.46	Side plating unnecessary 65.58 in way of painting in lieu of strakes	Double	7/8	3 1/2	Tribble	7/8	3"	Lapped
Upper Deck, Sheer-strake in Wells.....	J 9 3/8	.73	.46	.46		-	-	-	Quadr	1	4"	Lapped
Upper Deck, Sheer-strake in Bridge ...	H											
Strake below Sheer-strake in Wells.....	H	.68	.46	.46		Double	7/8	3 1/2	Tribble	7/8	3	Lapped
Strake below Sheer-strake in Bridge ...												
Poop Side Plating.....	50"			.46		Single	3/4	3	Double	3/4	2 7/8	Lapped
Bridge Side Plating.....												
Forecastle Side Plating.....			.40			Single	3/4	3	Single	3/4	2 7/8	Lapped

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— *4*

Extending to Upper Deck (Sec. 3 c) *6* ✓

„ Deck next below *1 at aft peak* ✓

As per Rule *4*

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar		✓		
STEM	<i>Roller bar</i>	<i>10x2 1/2</i>	✓	
STERN FRAME {	Propeller Post	<i>Forged iron 10 1/2 x 8</i>	<i>CMEW</i>	
{	Rudder	"	<i>10 1/2 x 8</i>	✓
Speed of Vessel		<i>11 Knots</i>	✓	
RUDDER—Type		<i>ordinary</i>	✓	
" A x D	<i>577-1</i>			
" Diam. of head		<i>Forged iron 11" + 10% = 11 7/8"</i>		✓
" Mainpiece at top pintle		<i>on sec area</i>		
" " heel		<i>Fabrication type</i>	✓	
" how constructed		<i>double plate welded</i>	✓	
" double or single plate coupling, vertical or		<i>Vertical Scarph</i>	✓	
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D, Upper 'tween decks	.26	Troughed plates			
"	" Second "	.26	" " "			
"	" Third "	.26	" " "			
"	" Holds	.34	Troughed plates			
COLLISION	(in Hold)	.526	30	8x3x.40 15 24	Same box beams	
AFTER PEAK		.50	75	30 6x3x.50 15 24	Same box beams	

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *open hearth*
Cassett Iron Co. Dorman Long & Co. Bay's Fleet Iron Co. Ld. Skinningstone St. Co.
South Durham & Co.

Has the Steel been tested as required by the Rules? *yes* ✓

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.)

Plans + forging reports attached.
This vessel is fabricated and "C" type design.
Pre-fabricated material was supplied as follows.

Centre girder and keel plates

Flons

Fore top plating

2nd deck

Bulb angle intercostals

Hatch webs

Engine + Boiler Casings

aft floor frames

Bulwark

Tunnel

Centre line bulkheads, midship bulkheads, Bantilevers,

2nd deck girders, upper deck girders + Hatch end beams

upper deck plating, Stringer angles, Skylight.

upper deck longitudinal, W.B. tank + Coal bunker, Tank margins, C + J Keel + Co

Fore intercostal frames, Intercostal frames.

Provision store + trunk bulkhead.

Coal + escape hatches

Tank margins F + aft.

Bulkhead Fore + aft.

Fore floor frames.

Midship deck beams

Side frames

Shell plate flat

Redpath Brown + Co

Consitt Iron Co.

Hudson Brown + Co.

Edward Wood + Co.

C + W. Walker + Co.

James + Co

Glenning Bros.

Burton Constr.

Wetherill Bridge Eng.

F. Martin + Co. Ltd.

John Booth.

H. Peets + Co.

Palmer. Hebburn.

applying Frothingham.

Handfield St.

Hubery Owen.

Shell plate curved

2nd deck longitudinal + transverse

When deck bulkheads subject except 75" which has a ringed W.T. door fitted. P.S. operated from both sides. The samplings of the main store space, where spanning the forward end part of the lower deck at 75" are equivalent to W.T. bulkheads.

PARTICULARS OF ELECTRIC WELDING (if employed)

Transverse Bldgs welded to tank top + deck. Tank top plating welded. Flons + tank side brackets welded to margin plate. Tank side brackets welded to shell. Tunnel butts + seams welded. 2nd deck stringer chock plates welded to stringer + shell. Butts of keel plating see page 2.

Approved welding rods used.

SPECIAL NOTATIONS

—Either as part of the vessel's class or for record in the Register Book. Cruiser stem. Lloyds A + CP. Two decks. DF. ESD. 6 bulkheads to weather deck. 1 bulkhead to 2nd deck. Wood hatches not fitted to Nos 1 + 6 lower deck hatchways. Longt framing at deck.

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

1st Bower 40-2-5 (AEG) 6300 11-8-44
2nd " 40-1-12 (JHJ) 6358 12-7-44
3rd "
Stream Anchor 13-2-20 (AEG) 6216 14-7-44

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 34.5 ft., R.Q.D. ft., Bridge ft., Forecastle 38.0 ft.

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

Official No. 180084 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 44 7' 9 1/4" (Circ. 1703)

No. and Material of Decks Two decks. steel.

Parts of Bottom of Vessel coated with cement or approved composition. F + a peaks + double bottom tank under boilers cemented. Remainder of double bottom tanks cemented over rivet heads.

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.	Salt Water Capacity.	Where Fitted.	Length.	Salt Water Capacity.
Double bottom, aft,	66	247	Fore peak tank,	23.5 Feet.	146
Double bottom, under Engines and Boilers,	42	200	After peak tank,	18-9	151
Double bottom, if under Engines only,			Deep tank, aft,	51	323
Double bottom, if under Boilers only,			Deep tank, forward,	15-9	282
Double bottom, forward,	208.5	823	Other tanks, if fitted, " " ENGINE ROOM PYS.	21-0	324
Total length (if continuous) and Capacity	316.5	1270	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 2491

Date 17.3.44

Dates of Surveys held while building

1944. June 20. 23. July 20. Aug 16. 29. Sept 6. 11. 15. 18. 19. 28. Oct 6. 30. 1945. Jan 5. 7. 13. 18. 1945. Jan 12. 17. 29. Feb 8. 13. Mar 5. 7. 8. 9. 13. 14. 15. 19. 20. 22. 23. 26. 28. April 3. 5. 6. 10. 12. 16. 18. 19. 20. 21. 24. 25. 27. 28. May 4. 11. 16. 23. 24. 26. 28. 29. 30. June 1. 7. 11. 12. 13. 15. 16. 19. 20. 21. 22. 24. 27. July 2. 3. 4. 5. 10. 11. 12. 13. 14.

Total No. of Visits 84