

## STEEL STEAMER OR MOTORSHIP.

Received at London Office 7 NOV 1944

State of Report has been sent on the Freeboard of the Vessel yesState of Report is sent on the Machinery of the Vessel yesDate of completion of report 1st November 1944 Port of Sunderland No. 34064Survey held at Sunderland Date First Survey 23rd Aug 1943 Last Survey 28 Oct 1944On the Steel screw EMPIRE COWDRAY Machinery amidshipsState Type Intermediate between 45 & CSS State Type of Erections Vessel on upper deckTONNAGE under  
Tonnage Deck ... 6613.46Do. of space or spaces  
between Tonnage Dk.  
and Upper Dk. Total Gross Tonnage 7042.10Net Tonnage 4816.35

## REGISTERED DIMENSIONS.

FEET

Length 433.0Breadth 56.3Depth 34.4CLASS 1-100 A.1State 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) 425.0Breadth (greatest moulded) 56.0Depth, at middle of length from top of keel to top  
of beam at side of uppermost continuous  
deck. See Sec. 3 (1c) 36.831st Longitudinal Number (L x D) 15193.752nd Numeral L x (B + D) 38993.75Framing Depth "d," at middle of length. See  
Sec. 3 (1d) 23.9Proportions—Depth to Length—Uppermost con-  
tinuous deck to top of keel 11.54Do. Long Bridge to  
top of keel ✓Draught Moulded 26'-1 3/8"Built at SunderlandLaunched 19th August 1944 Yard No. 4Builders Shipbuilding Corporation Ltd (Wear Branch)Owners Ministry of War TransportManagers Coppen, Alexander & Co  
(Where necessary to be entered in Reg. Book)Residence 4 St Mary Axe  
London E.C.4.Port 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 .....	6 x 3 1/2 x 7/16 L	✓
" " from 1/2 length amidships to Collision bulkhead.....	27	✓	" " Reversed Frame.....	6 x 3 1/2 x 7/16 L	✓
" " in peaks .....	24	✓	" " Vertical Struts .....	10 x 3 1/2 x 7/16 L	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/4 x .54	✓
Frame Amidships, Angle, <u>E</u> or <u>C</u> .....	12 x 3 1/2 x 7/16 L	✓	" " top Angles .....	4 x 4 x .50	✓
" " Extends up to.....	AT HE BEAMS	✓	" " bottom Angles.....	4 x 4 x 9/16	✓
" " ON ALTS IN BOILER ROOM			Side Girders, No. each side and thickness.....	ONE @ .38	✓
Reversed Frame Amidships, Angle .....	4 x 4 .50	✓	Margin Plate depth (excl. of flange) and thickness .....	44 x .54	✓
" " Extends up to .....	2nd DECK	✓	" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem .....	6 1/2 x 6 1/2 x .625 T	✓
Depth of Framing Girder.....	12	✓	" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area .....	6 1/2 x 6 1/2 x .625 T	✓
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E</u> or <u>C</u> .....	6 x 3 1/2 x 7/16 L, AT PANTING 8 x 3 1/2 x 35 L	✓	" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	24 x .42 CONTINUOUS	✓
" " Second 'tween Decks, Angle, <u>C</u> or <u>C</u> .....	8 x 3 1/2 x 7/16 L	✓	" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area .....	24 x .42 CONTINUOUS	✓
" " Third			Tank Side Brackets, height above base line at toe of Frame and thickness	77 x .44	✓
FRAMES AT PANTING AREA			INNER BOTTOM PLATING.		
" " from 1/2 len. for'd. to 15% len. from Stem .....	12 x 3 1/2 x 7/16 L & 6 x 6 x .50 REV. 14 9/16 REV	✓	Breadth and thickness of Middle Line Strake...	82 x .50	✓
" " in Peaks, Angle or <u>C</u> .....	8 x 3 1/2 x .35 L	✓	Thickness of remainder in Holds .....	44 x .08 UNDER HATCHES	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships .....	7/8 @ 5 3/4	✓	Are Rule requirements complied with regard- ing increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?.....	yes	✓
State if Frame Joggled.....	yes	✓	BEAMS.		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	yes	✓	Uppermost Continuous Deck, amidships in Wells, Angle, <u>E</u> or <u>C</u> .....	10 x 3 1/2 x .44 L THROUGH BEAMS	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?.....	yes	✓	" " in way of Bridge, Angle, <u>C</u> or <u>C</u> .....	8 x 3 1/2 x .35 L HALF BEAMS	✓
SINGLE BOTTOM.			" " Spacing .....	EVERY FRAME	✓
Floors, Depth and thickness at mid-line in Holds.....	✓		Second Deck, amidships, Angle, <u>E</u> or <u>C</u> .....	12 x 3 1/2 x .45 L THROUGH BEAMS	✓
Height of Brackets at side above base line at toe of frame.....	✓		" " Spacing .....	9 x 3 1/2 x 3/8 L HALF BEAMS	✓
Middle Line Keelson, on Floors, Angles, <u>C</u> or <u>C</u> .....	✓		" " Third Deck, amidships, Angle, <u>C</u> or <u>C</u> .....	✓	
" " Through Plate or Inter- costal Plate .....	✓		" " Spacing.....	✓	
" " Foundation Plate on Floors .....	✓		Fourth Deck, amidships, Angle, <u>C</u> or <u>C</u> .....	✓	
" " Flat Plate Keel Angles	✓		" " Spacing.....	✓	
Side Keelsons, No. each side.....	✓		Poop Deck, Angle, <u>C</u> or <u>C</u> .....	✓	
" " thickness of Intercoastal Plate...	✓		" " Spacing.....	✓	
" " Angles .....	✓		Bridge Deck, Angle, <u>C</u> or <u>C</u> .....	✓	
DOUBLE BOTTOM.			" " Spacing.....	✓	
Solid Floors, thickness and spacing .....	42 @ 93	✓	Forecastle Deck, Angle, <u>E</u> or <u>C</u> .....	8 x 3 1/2 x 7/16 L - 6 x 3 1/2 x 7/16 L	✓
" " Are Frame and Reversed Frame joggled? .....	yes	✓	" " Spacing.....	EVERY FRAME	✓
Bracket Floors, breadth and thickness at middle line .....	2-8 1/4 x 42 FL @ 2 1/2	✓			
" " breadth and thickness at margin plate.....	42 FL @ 2 1/2	✓			







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.)

The material incorporated in the vessel were pre-fabricated by Messrs Vickers-Armstrongs Ltd. Barrow-In-Furness. It was originally intended that the vessel be built by them as their Yard no 828, a duplicate of their Yard no 824. EMPIRE NOBLE

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

PARTICULARS OF ELECTRIC WELDING (if employed) Butts of shell plating, deck plating and tank top welded. Second deck and deep tank tops welded to shell. Bulkhead stiffener brackets, deep tanks and continuous gussets welded to tank top. Half beam ends welded to hatch side girders. Stem frame and rudder welded. Hatch webs welded. Ventilator coaming, deck houses and winch girders 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.

"FIVE DIVISIONAL W.T. BULKHEADS IN 'TWEEN DECKS"

"BUTTS OF SHELL & DECK PLATING ELECTRICALLY WELDED"

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	44-0-21	G.G.Y	4030	30-5-41
	2nd "	43-3-21	G.G.Y	4002	19-5-41
	3rd "	✓			

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 39.0 ft.

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

Official No. 180144 Signal Letters ✓ Extreme Breadth over Belting (Circ. 1611) ✓ Over-all Length 447.8 ft. (Circ. 1703)

No. and Material of Decks 2 Decks (steel) ✓ FILLETS (See Slat letter 14/1/50)

Parts of Bottom of Vessel coated with cement or approved composition Cement in double bottom tanks, peak tanks, deep 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,	67.16	257	Fore peak tank,	22.00	122 ✓
Double bottom, under Engines and Boilers,	43.91	204	After peak tank,	23.16	170 ✓
Double bottom, if under Engines only,	✓	✓	Deep tank, aft, ABREAST TUNNEL	64.57 ✓	480 ✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	14.00 ✓	370 ✓
Double bottom, forward,	193.91	724	Other tanks, if fitted, ENGINE ROOM SIDES	23.25 ✓	407 ✓
Total length (if continuous) and Capacity	304.98 ✓	1185 ✓	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 6108

Date 23.6.43

Dates of Surveys held while building

1943. Aug. 23. Sep. 14. 21. 29. Oct. 1. 12. 25. 29. Nov. 4. 9. 15. 25. 30. Dec. 10. 15. 17.  
1944. Jan. 4. 5. 12. 19. 31. Feb. 3. 11. 17. Mar. 1. 2. 7. 16. 21. 23. 27. 31. Apr. 12. 18. 26. 28. May. 1.  
4. 8. 10. 11. 19. 22. 23. 24. 25. 26. 31. June 3. 5. 6. 8. 9. 12. 13. 16. 20. 21. 27. 28. 29. July 1. 7. 10. 11.  
12. 13. 17. 18. 20. 21. 24. 25. 26. 27. 28. 31. Aug. 1. 2. 3. 4. 8. 10. 11. 14. 15. 16. 17. 18. 19. 25. Sep. 1. 6. 7. 11. 12. 13.  
14. 15. 16. 18. 20. 21. 25. 26. 27. 28. 29. Oct. 4. 5. 6. 9. 10. 11. 12. 13. 16. 17. 18. 19. 20. Total No. of Visits 128  
22. 23. 24. 25. 26. 27. 28