

STEEL STEAMER **MOTORSHIP**

Received at London Office 3 MAR 1942

State if Report has been sent on the Freeboard of the Vessel *2/5*.State if Report is sent on the Machinery of the Vessel *No*.

Date of completion of report

28/2/42

Port of MIDDLESBROUGH.

No. 17206.

Survey held at *Hawerton Hill on Tues.*Date First Survey 23rd Jan., 1941Last Survey 12th February, 1942.

On the (State if Machinery fitted Aft and

5. EASEDALE. Machinery Aft Single Screw Steam Tanker.

State Type

(Full Scantling, Complete Superstructure, or of limited Superstructure)

State Type of Erections *Deep Bridge & etc.*TONNAGE under
Tonnage Deck...

7197.47.

CLASS *100 A.I. Carrying* State if with freeboard*PETROLEUM IN BULK* as condition of Class

Length from fore part of stem to after part of stern

most on summer L.W.L. See Sec. 3 (1a)

L 460' 0"

Breadth (greatest moulded)

B 61' 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 33' 3"

1st Longitudinal Number (L x D) = 15295

2nd Numeral L x (B + D) = 43355

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

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

13.83.

Do. Long Bridge to top of keel

Draught Moulded 27' 13"

Built at *Hawerton Hill on Tues.*Launched Dec 18th 41. Yard No. 340.Builders *James S. B. & Co.*Owners *Admiralty*Managers
(Where necessary to be entered in Reg. Book.)

Residence

Port of Registry *London.*If surveyed while building, afloat, or in dry dock
Surveyed while building & afloat.

REGISTERED DIMENSIONS.

FEET.

Length 463.5

Breadth 61.2

Depth 33.05.

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	8' 3 1/2" 7/16"	✓
" " from 1/2 length amidships to Collision bulkhead	30 3/4 IN E. & B. SPACE		" " Reversed Frame	8' 3 1/2" 45"	✓
" " in peaks	24" 31' 26"		" " Vertical Struts PLATES	2' 11" 52"	✓
LONGITUDINAL FRAMING AT BOTTOM AND AT DECK.			Centre Girder, depth and thickness amidships	81' 50" 54"	✓
SIDE FRAMING. SEE SEPARATE SHEET.			" " top Angles	85' 33" 33" 53"	✓
Frame Amidships, Angle []	10 33' 40"	✓	" " bottom Angles	6' 6" 50"	✓
" " Extends up to	UPPER DECK.	✓	Side Girders, No. each side and thickness	85 TWO 50" 83 ONE 52"	✓
Reversed Frame Amidships, Angle	✓		Margin Plate depth (excl. of flange) and thickness	85 10' 10" 55"	✓
" " Extends up to	✓		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	85 9' 3" 45"	✓
Depth of Framing Girder	10' 10" 33' 50"	✓	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	85 10' 10" 55"	✓
Frames in Uppermost Continuous 'tween Decks, Angle, []	7 10' 33' 50" ALT 10 POOP. 7 6 33' 3/8"	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	85 10' 10" 55"	✓
" " Second 'tween Decks, Angle, []	INTERMEDIATE 7 6 33' 3/8" NOT ATTACHED.	✓	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	85 10' 10" 55"	✓
" " Third " " "			Tank Side Brackets, height above base line at toe of Frame and thickness	85 9' 3" 45" 3" FLANGE.	✓
" " from 1/2 len. for'd. to 15% len. from Stem	7 12 33' 45" AS APPROVED. IN DEEP TANK.	✓	INNER BOTTOM PLATING.	85 30' 52"	✓
" " in Peaks, Angle []	8' 33' 7/16"	✓	Breadth and thickness of Middle Line Strake	85 54' 58"	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 4 1/8"	✓	Thickness of remainder in Hold IN E. & B. SPACE	85 54' 58"	✓
State if Frame Joggled	2/5.	✓	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 the Panting Area in accordance with the Rules and/or as approved?	2/5.	✓	BEAMS. IN MACHINERY SPACE.	7 8' 33' 7/16"	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	2/5.	✓	Uppermost Continuous Deck, amidships	EVERY FRAME.	✓
SINGLE BOTTOM. AT FORE END.			" " in Walls, Angle, []	LONGITUDINAL BEAMS IN WAY OF OIL TANKS.	✓
Floors, Depth and thickness at mid-line in Holds	4' 0" 3/8"	✓	" " in way of Bridge, Angle, []	Spacing (SEE SEPARATE SHEET.)	✓
Height of Brackets at side above base line at toe of frame	7' 0" 40' 3 1/4"	✓	Second Deck, amidships	8' 33' 7/16"	✓
Middle Line Keelson, on Floors, Angle, []	3 1/2 3 1/2 7/16"	✓	Spacing	EVERY.	✓
IN OIL TANKS.			Third Deck, amidships, Angle, []	✓	
" " Through Plate or Intercoastal Plate	4' 4' 50"	✓	Spacing	✓	
" " Foundation Plate on Floors			Fourth Deck, amidships, Angle, []	✓	
" " Flat Plate Keel Angles			Spacing	✓	
Side Keelsons, No. each side			Poop Deck, Angle, []	8' 33' 7/16"	✓
" " thickness of Intercoastal Plate			Spacing	EVERY.	✓
" " Angles			Bridge Deck, Angle, []	LONGITUDINAL (SEE SEPARATE SHEET.)	✓
DOUBLE BOTTOM. IN MACHINERY SPACE			Spacing		
Solid Floors, thickness and spacing	42 30 3 1/2 31 7/8 30	✓	Forecastle Deck, Angle, []	8' 33' 35"	✓
" " Are Frame and Reversed Frame joggled?	R.F. IN BOILER SPACE ONLY 704460.	✓	IN WAY OF UNOLASS	9' 33' 3/8"	✓
Bracket Floors, breadth and thickness at middle line	2' 11" 52"	✓	Spacing	EVERY.	✓
" " breadth and thickness at margin plate	AS APPROVED	✓			

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			Thickness of Plating within line of openings...		
ST. CENTRAL LINE BULKHEADS IN DECK TANK FORM 44' 40' STIFFENERS 10' 3 1/2' 50' 7 SPACES 26' 31' APART. WEB FRAMES ON 165' 28' 40' DOUBLE CASE 8' 3 1/2' 35' LOW WINDLASS			If Sheathed, material and thickness		
Center-Line Bulkheads P.S. Stiffeners and Spacing..... 10' 3 1/2' 42' 7 3/4' APART.			Third Deck.		
Plating, thickness of	51' 40'		Stringer Plate, breadth and thickness.....		
STRINGERS AND DECKS.			If Plated, state thickness.....		
Uppermost Continuous Deck.			Fourth Deck.		
Stringer Plate, breadth and thickness in Wells 90' 70'			Stringer Plate, breadth and thickness.....		
„ „ „ „ in way of Bridge 78'			If Plated, state thickness		
„ Angle in Wells 6' 6' 5/8'			Poop Deck.		
Thickness of Plating abreast Deck openings in way of Wells 72' - 60'			Stringer Plate, breadth and thickness	37'	
Thickness of Plating abreast Deck openings in way of Bridge			Plating, Sheathing, material and thickness	30'	
Thickness of Plating within line of openings...			Bridge Deck.		
If Sheathed, material and thickness			Stringer Plate, breadth and thickness.....	80 1/2' 37'	
Second Deck.			Plating, Sheathing, material and thickness	34'	
Stringer Plate, breadth and thickness in Wells...			Forecastle Deck.		
			Stringer Plate, breadth and thickness.....	37'	
			Plating, Sheathing, material and thickness	36'	
				60'	

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.									
FLAT PLATE KEEL	50	97	80	82		DOUBLE.	1	4	QUINTUPLE FOR 3/4" GALVANIZED	1	4	LAPPED.	
" DELG. (if any)	77	81	IN WAY OF 3" SPACING										
BOTTOM PLATING, No. of Strakes ...		70	60	66			7/8	3 1/2	QUADRUPLE.	7/8	3 1/2	LAPPED.	
BILGE PLATING, No. of Strakes ...	E	64	50	66									
SIDE PLATING, No. of Strakes ...	F	63	50	48									
UPPER DECK, Sheer-strake in Wells.....	G	63	46	46									
UPPER DECK, Sheer-strake in Bridge ...	H	63	46	46			1	3 3/8	5-4	7/8	4 1/2		
STRAKE BELOW Sheer-strake in Wells.....	K	72	94	46	46		1	3 7/8	5	1 1/8	5 1/8		
STRAKE BELOW Sheer-strake in Bridge ...		72	78	46	46		1	3 7/8	4-3	7/8	4		
POOP SIDE PLATING				40		SINGLE.			2	3/4	2 5/8		
BRIDGE SIDE PLATING ...		44							2	3/4	2 5/8		
FOREC'TLE SIDE PLATING			43				3/4	3	1	3/4	2 5/8		

WATERTIGHT BULKHEADS.

16 BH. R B

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

Extending to Upper Deck (Sec. 3 c)	15 Oiltight.	} To Upper Deck.
„ Deck next below	2 Watertight.	
As per Rule		

FORGINGS AND CASTINGS.		Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar	FLAT PLATE KEEL ✓				
STEM	PLATES 60' WITH CAST STEEL EXTENSION. ✓				
STERN FRAME	Propeller Post PLATES 1 1/2" E.W. CAST STEEL CASTINGS. ✓ Rudder " BUILT PLATES E.W. 1 1/2" THICK ✓				
Speed of Vessel	12 KNOTS. ✓				
RUDDER—Type.	DOUBLE PLATE STREAM LINE.				
"	A x D 664 ✓				
"	Diam. of head	FORGED STEEL. 64" ✓			
"	Mainpiece at top pintle	CAST STEEL PINTLES & COUPLING. ✓			
"	" heel				
"	how constructed				
"	double or single plate				
"	coupling, vertical or horizontal	6 BOLTS. ✓			

Steel Castings.
Davy Crockett Keel & Forework Lira
Manufactured here on Tenth
Mullan, Cast Steel & Arrow Metal.
Horseheads &c.
Rudders &c.
Walsingham Steel Co. Ld.

			Plating Thickness.	STIFFENERS.			
				VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULK'D,	Upper tween decks		54' To 41'	10' 3 1/2" 40' 36" ✓ IN CENTER TANKS. INCREASED ON BULKHEADS AS REQUIRED.		120' 132' 137' 149' ✓	
	"	Second	"	54' To 41'	10' 3 1/2" 40' 36" ✓ IN WING TANKS.		
	"	Third	"	41'	10' 3 1/2" 50' 736" ON 120 BULKHEAD.		
"	"	Holds					
COLLISION	"	(in Hold)	52'-26"	12' 3 1/2" 45' 24" ✓ 6' 3 1/2" 38' 24" ✓ 9' 3 1/2" 36' 24" ✓ 50'-30"	To W.T.F. To U.O. To PERKTOP To U.O. ✓	SEMI BOX 135AH.	
	AFTER PEAK	"	"	7' 3 1/2" 33' 24" ✓	To U.O. ✓		

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

Has the Steel been tested as required by the Rules?

OPEN HEARTH PROCESS.

Lloyd's Register
Foundation

FRAMING.			AMIDSHIPS.			ENDS.			Any Departure from Approved Plans to be Noted.		RIVETING.								
			In Ship.			In Ship.					Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.		Rivets in Brackets to Bulkheads.				
			Ins.	Ins.	Ins.	Ins.	Ins.	Ins.			Diam.	Speng.	Inches.		Number.	Diameter.			
			Ins.	Ins.	Ins.	Ins.	Ins.	Ins.			Ins.	Ins.				Inches.			
Framing of L, L or E			7"	3	3/8 7	✓					3/4	4 1/2	✓		7	7/8			
Frames in Bridge 'tween Decks ...			30" APART. ✓																
Frames from Uppermost Continuous Deck No. 1																			
		" 2																	
		" 3																	
		" 4																	
		" 5																	
		" 6																	
		" 7																	
		" 8																	
		" 9																	
		" 10																	
		" 11	12'	3 1/2	50 7	✓	12'	3 1/2	50 7	✓	7/8	5 1/4	7/8 DIA RIVETS SPACED 3 1/2" APART. EACH SIDE OF TRANSVERSES & BULKHEADS ✓						
		" 12	17' x 58" x 4" x 4" x 68"			✓	17' x 58" x 4" x 4" x 68"			✓	10 RIVETS.		7/8 DIA RIVETS IN BRACKETS ✓ TO BULKHEADS 18" TO LONGITUDINALS 16 VERTICALLY. ✓						
		" 13	"				"												
		" 14	"				"												
		" 15	"				"												
		" 16	"				"												
Spacing of Longitudinal Frames			Amidships			3'-0"	At Ends			3'-0"									
						3'-0"				3'-0"									
Double Bottoms L, L or C			Tank Top Longitudinals																
			Bottom			✓	✓												
Spacing of Longitudinals			Amidships			✓													
			At Ends...																
Transverses.			15' 38"			✓													
Side (in 'tween Decks)			Depth and Thickness			3"	3"			38"	✓								
			Face Angles			3 1/2	3 1/2			38	✓								
			Lugs to Shell*			3 1/2	3 1/2			38	✓								
Side (in Hold)			Depth and Thickness			TRANSVERSE FRAMING													
			Face Angles			37' x 44' SIDE ✓													
			Lugs to Shell*			40 1/2' x 44' CE. ✓													
Bottom			Depth and Thickness			6"	3 1/2			56	✓								
			Face Angles			Q. 7	6			6	50	✓							
			Lugs to Shell*			3 1/2	3 1/2			7 1/6	✓								
			Back Bars			44'					✓								
			Brackets			10'-4"					✓								
Spacing of Transverse Frames			State if joggled or liners.																
Longitudinal Beams of L, L or C			Bridge Deck			5'	3			3/8 7	✓								
			Upper			9'	3 1/2			7 1/6 7	✓								
			Second			✓					✓								
			Third			✓					✓								

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.

1m, 2, 37. T.

003075-003082-0166²/₃

Committee's Minute

HAWSERS AND WARPS

The Surveyor 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.)

No. of Certificate.	Length & Side.		Test.		Weight of Cable.		Description.	Where & When Tested.
	Length.	Side.	Str.	Breaks.	Cable.	Tons.		
116541	15	28	113.8	159.3	35-3-24	STUDLINK	NETHERTON	
116542	35-3-24	.	24-10-41	
116543	36-0-17	.	J.A.R.	
116544	36-0-24	.	.	
116545	36-0-0	.	.	
116546	36-0-17	.	.	
116547	36-0-10	.	.	
116548	35-3-10	.	.	
116549	36-0-0	.	.	
116550	35-3-24	.	.	
116551	36-0-10	.	.	
116552	36-0-0	.	.	
116553	36-1-12	.	.	
116554	36-0-5	.	.	
116555	37-0-0	.	.	
116556	37-0-8	.	.	
116557	35-3-17	.	.	
116558	35-3-17	.	.	
116559	35-3-10	.	.	
116560	35-3-24	.	.	
TOTAL					723-0-1			

Sister Vessels Built by Messrs. Furness, B. & C. Ltd.	
No. 325 EMERALD GOLD	16969
No. 326 EMPIRE GRANITE	17010
327 EMPIRE OIL	17038
328 EMPIRE MICA	17054
329 EMPIRE SAPPHIRE	17081
330 EMPIRE AMETHYST	17097
334 EMPIRE EMERALD	17123
335 EMPIRE COLT	17164
339 EAGLESCALE	17179

PARTICULARS OF ELECTRIC WELDING (if employed)

Rudder electrically welded. Snaps are electrodes.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book. 100 A.L. Carrying petroleum in bulk. Longitudinal framing at bottom and at deck, cruiser stern, machinery aft like screwing, Direction finding apparatus.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	43-2-12	H.B.S.	No. 3480	9-10-40.
	2nd "	44-2-21	J.T.	No. 3660	31-12-40.
	3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 105.33 ft., R.Q.D. ✓ ft., Bridge 43.16 ft., Forecastle 38.2 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

Official No. 168256 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 479.05 (Circ. 1703)
No. and Material of Decks 104(54) 2nd 04(54) CLEAR OF OIL TANKS.
Parts of Bottom of Vessel coated with cement or approved composition AS BELOW

Particulars of composition (if fitted) and of approval FORE & AFTER PEAK TANK COFFERDAMS IN E.S. CEMENT IN BOTTOM & CEMENT WASHED RUMP ROOM COATED WITH GRANITE BELOW PLATFORM REMAINDER OF TANKS INCLUDING CARGO TANKS LEFT BARE.

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,	23.5	140	
Double bottom, under Engines and Boilers,				After peak tank,	16.0	78	
Double bottom, if under Engines only,	38.3	95		Deep tank, aft,			
Double bottom, if under Boilers only,	43.112	279		Deep tank, forward,	32.0	664	
Double bottom, forward, COFFERDAM	2.634			Other tanks, if fitted,			
Total length (if continuous) and Capacity	84.84	374		(If necessary, furnish further information by sketch.)			
Say 85.0							

Order for Special Survey No. 1531

Date 13-3-40

Dates of Surveys held while building

1941 Jan. 23. Feb. 14. March 7. May 16. June 12. July 2. 14. Aug. 5. 7. 28. Sept. 5. 17. Oct. 2. 4. 20. 21. 28. Nov. 7. 10. 12. 14. 19. 21. 24. 26. 28. Dec. 1. 3. 5. 10. 12. 15. 18. 24. 1942 Jan. 6. 28. 30. Feb. 4. 5. 9. 10. 12.

Total No. of Visits 43