

STEEL STEAMER or MOTORSHIP.

Received at London Office JUL - 3 - 1938

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 5th July 1938.Port of NEWCASTLE-ON-TYNENo. 96399Survey held at St. Leon.Date First Survey 9th April 1937. Last Survey 19th July 1937.

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

M.Y. "DAPHNELLA"Machinery fitted aft. Single screw.

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

Full ScantlingState Type of Erections P. B. & F.TONNAGE under Tonnage Deck... 4234.98.CLASS +100 A.1.State if with freeboard as condition of Class No.Built at Steburn. on. TyneDo. 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) L 460.00

FEET.

Launched 18.3.38Yard No. 611.Total ✓Breadth (greatest moulded) B 59.00Builders R. & W. Hawthorn, Leslie & Co. Ltd.Gross Tonnage 8048.36Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 34.00Owners Anglo-Saxon Petroleum Co. Ltd.Register Tonnage 4489.801st Longitudinal Number (L x D) = 15640Managers ✓2nd Numeral L x (B + D) = 42480

(Where necessary to be entered in Reg. Book.)

REGISTERED DIMENSIONS.

FEET.

Length 465.3Breadth 59.3Depth 33.85Framing Depth "d," at middle of length. See Sec. 3 (1d) ✓Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.52.Do. Long Bridge to top of keel 24¹/₄Draught Moulded 24¹/₄Residence ✓Port of Registry London.If surveyed while building, afloat, & in dry dock Yes.

FRAMES, DOUBLE BOTTOM AND BEAMS.

For Long. framing see slip attached.FRAMES, Spacing amidships 3¹/₂

INCHES IN SHIP.

Any Departure from Approved Plans to be Noted.

" " from Forward to Collision bulkhead 24✓" " in peaks 24✓" " " Machinery space. 30³/₄✓SIDE FRAMING. " Oil fuel bunkers. 27³/₄✓Frame Amidships, Angle Forward 10 3¹/₂✓" " Extends up to Upper Dk. 11 3¹/₂✓" " " Back. Machinery space. 9 3¹/₂✓Reversed Frame amidships, Angle Back. Machinery space. 10 3¹/₂✓" " Extends up to... Back. Machinery space. 10 3¹/₂✓Depth of Framing Girder 9" 10" 11"✓Frames in Uppermost Continuous 'tween Decks, Angle, [or] Forward. 9 3¹/₂✓" " Second 'tween Decks, Angle, [or] Back. 8 3✓" " Third " " Forward. 8 3¹/₂✓Framing in Peaks, Angle, [or] Back. 9 3¹/₂✓Diameter and Spacing of Rivets through Frame and Shell Plating amidships 1/8 4¹/₈✓State if Frame Joggled Yes.✓PANTING ARRANGEMENTS (Sec. 7), state system and particulars 3 struts in peak.STRENGTHENING OF BOTTOM FORWARD. State Particulars 0.7" flat & 1" stringer as appra. above peak 13/16.

SINGLE BOTTOM.

Floors, Depth and thickness at mid-line in Holds Stringer & cross ties.Height of Brackets at side above base line at toe of frame Upper stringer 26" x 1/2"Middle Line Keelson, on Floors, Angles, [or] Lower stringer 30" x 1/2"" " " Through Plate or Intercoastal Plate... 2" x 1/2" x 1/2" x 1/2"" " " Foundation Plate on Floors 3" x 1/2" x 1/2" x 1/2"" " " Flat Plate Keel Angles 1" x 1/2" x 1/2" x 1/2"Side Keelsons, No. each side 1" " thickness of Intercoastal Plate... 1/2"" " Angles 1/2"DOUBLE BOTTOM. Machinery space.Solid Floors, thickness and spacing 50 mm" " Are Frame and Reversed Frame joggled? Yes.Bracket Floors, breadth and thickness at middle line None." " breadth and thickness at margin plate None.Bracket Floors, Frame None." " Reversed Frame None." " Vertical Struts None.Centre Girder, depth and thickness amidships 60" x 54" x 1/2"" " top Angles None." " bottom Angles None.Side Girders, No. each side and thickness 1 @ 60"Margin Plate depth (incl. of flange) and thickness 1-2 height .50" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem 1-1/2 height .50" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem 1-1/2 height .50" " Gussets, spacing and scantling abaft 1/4 len. from stem 1-1/2 height .50" " Gussets, spacing and scantling forward 1/4 len. from stem 1-1/2 height .50Tank Side Brackets, height above base line at toe of Frame and thickness 34" x 1/2"

INNER BOTTOM PLATING.

Breadth and thickness of Middle Line Strake 41" x 1/2"Thickness of remainder in Holds 1/8" 1/8" 1/8" 1/8"Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Boiler and Boiler Room? Yes.

BEAMS.

Uppermost Continuous Deck, amidships in Wells, Angle, [or] Longitudinal." " in way of Bridge, Angle, [or] (see slip attached).Spacing ✓Second Deck, amidships, Angle, [or] ✓Spacing ✓Third Deck, amidships, Angle, [or] ✓Spacing ✓Fourth Deck, amidships, Angle, [or] ✓Spacing ✓Poop Deck, Angle, [or] 8.3" x 1/2" x 1/2"Spacing 30 3/4Bridge Deck, Angle, [or] 4 3Spacing 3 1/2Forecastle Deck, Angle, [or] 9 3/2Spacing 8.3" x 1/2" x 1/2"

PILLARS AND DECKS.

[illegible]

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>No.</i>			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 or. to or.		Diam.	Spacing or. to or.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	84	.86 ✓	.48 ✓	.48 ✓	✓	double.	1	4 ✓	Quintuple.	1	4 1/2	Lapped.	
„ DBLG. (if any)	-	-	-	-	✓	-	-	-	-	-	-	-	
BOTTOM PLATING, No. of Strakes ... 2	1 @ 1 @ 1 @	.64 ✓ .66 ✓ .64 ✓	.53 ✓ .53 ✓ .50 ✓	.53 ✓ .53 ✓ .50 ✓	✓	double	3/8	3 1/2	Quad.	7/8	3 1/2	Lapped.	
BILGE PLATING, No. of Strakes	-	.64 ✓	.50 ✓	.50 ✓	✓	double	7/8	3 1/2	Quad.	7/8	3 1/2	Lapped.	
SIDE PLATING, No. of Strakes	-	.64 ✓	.50 ✓	.50 ✓	✓	double	7/8	3 1/2	Quad.	7/8	3 1/2	Lapped.	
UPPER DECK, Sheer-strake in Wells	56	1.00 ✓	.50 ✓	.50 ✓	✓	-	-	-	Quintuple.	1 1/8	5 1/16	Lapped.	
UPPER DECK, Sheer-strake in Bridge ...	62 1/2	.90 ✓	.50 ✓	.50 ✓	✓	double	3/4	3 1/2 ✓	Quintuple	1 1/4	5 3/8	Lapped.	
STRAKE BELOW Sheer-strake in Wells	83 3/4	.46 ✓	.50 ✓	.50 ✓	✓	double	1"	4	Quad.	1	4	Lapped.	
STRAKE BELOW Sheer-strake in Bridge ...	83 3/4	.46 ✓	.50 ✓	.50 ✓	✓	double	1	4	Quad.	1	4	Lapped.	
POOP SIDE PLATING40 ✓	✓	Single	3/4	3	Single.	3/4	2 5/8	Lapped.	
BRIDGE SIDE PLATING43 in one strake. ✓			✓	-	-	-	double	3/4	2 5/8	Lapped.	
FOREC'TLE SIDE PLATING			.43. ✓		✓	Single	3/4	3	Single	3/4	2 5/8	Lapped.	

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Casting or Forging.		Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
Extending to Upper Deck (Sec. 3 c) <i>14.</i> ✓						
,, Deck next below <i>✓</i>						
As per Rule <i>4.</i>						
		STIFFENERS.				
Plating Thickness.		VERTICAL.		HORIZONTAL.		
		Scantlings.	Spacing.	Scantlings.	Spacing.	
MIDSHIP BULKH'D, Upper tween decks <i>✓</i>						
,, Second ,, <i>✓</i>						
,, Third ,, <i>✓</i>						
,, Holds <i>51-40 10 x 3 1/2 x 40 3 1/2 30 2 1/2</i>						
COLLISION ,, (in Hold) <i>48-26 8 x 3 x 60-35 1/2 24 1/2</i>						
AFTER PEAK ,, ,, <i>42-30 4 x 3 x 20 2 1/2 24 1/2</i>						
STEEL.		<p>Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)</p> <p><i>Walter & Co, Shipbuilding Iron Works, Cargo Fleet, Tottenham, London, S.E. 12, Co of Scotland.</i></p> <p>Has the Steel been tested as required by the Rules? <i>Yes.</i> ✓</p>				

34485	2nd	...	73	2	0	✓	53	10	0	0	✓	43.5	do.	...	11.4.34	J.H.B.
	3rd	...	220	3	0	✓						220.5	do.	...	6.9.34	J.H.B.
	Collective weight.															

Rpt. 1*.

Newcastle-on-Tyne

96399

"DAPHNELLA"

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.					
		In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			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.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.	Speng.	Number.		Diameter.		
																Inches.		Inches.	
Framing of the C																			
Frames in Bridge 'tween Decks ...																			
Frames from Uppermost Continuous Deck No. 1																			
BOTTOM SHELL. " 2																			
" 3																			
" 4																			
" 5																			
" 6																			
" 7																			
" 8		14x4x4x	53/68	✓	14x4x4x	53/68	✓	14x4x4x	53/68	✓	14x4x4x	53/68	✓	7/8	5 1/4	3 3/8 for 11 rivets	62 gussets	✓	
" 9		do		✓	do		✓	do		✓	do		✓	do		each side of	18-7/8 rivets	✓	
" 10		do		✓	do		✓	do		✓	do		✓	do		transverse	6 B/ldds	✓	
" 11		do.		✓	do		✓	do.		✓	do		✓	do.		0.4 B/ldds.	Longitud.	✓	
" 12																			
" 13																			
" 14		14x4x4x	53/68	✓	14x4x4x	53/68	✓	14x4x4x	53/68	✓	14x4x4x	53/68	✓	7/8	5 1/4	3 3/8 for 11 rivets	62 gussets	✓	
" 15		do		✓	do		✓	do		✓	do		✓	do		each side of	18-7/8 rivets	✓	
" 16		do		✓	do.		✓	do.		✓	do.		✓	do.		transverse	6 B/ldds	✓	
Spacing of Longitudinal Frames		Amidships			At Ends														
		33" in Centre Tanks.			30" in Wing Tanks.														
Double Bottoms		Tank Top Longitudinals																	
L, L or C		Bottom																	
Spacing of Longitudinals		Amidships			At Ends...														
Transverses.														Rivets in Lugs to Shell					
In Bridge		Depth and Thickness																	
In Bridge		Face Angles																	
In Bridge		Lugs to Shell*																	
BOTTOM		34	.444	✓	34	.444	✓	34	.444	✓	34	.444	✓						
In Bridge		6	4	.60	6	4	.60	6	4	.60	6	4	.60	7/8	5 1/4				
Upper 'tween Decks.		6	6	.444	6	6	.444	6	6	.444	6	6	.444	7/8	3 1/2				
WING TANKS		40	.444	✓	40	.444	✓	40	.444	✓	40	.444	✓						
In Bridge		6	4	.60	6	4	.60	6	4	.60	6	4	.60	7/8	5 1/4				
BOTTOM.		6	6	.444	6	6	.444	6	6	.444	6	6	.444	7/8	4				
In 'tween Decks.		3 1/2 x 3 1/2 x .444			3 1/2 x 3 1/2 x .444			3 1/2 x 3 1/2 x .444			3 1/2 x 3 1/2 x .444			7/8	4 1/8				
CENTRE TANKS.		4'-11" x 5'-6" x .444			4'-11" x 5'-6" x .444			4'-11" x 5'-6" x .444			4'-11" x 5'-6" x .444								
" " Back Bars ...		4'-0" x 3'-1" x .444			4'-0" x 3'-1" x .444			4'-0" x 3'-1" x .444			4'-0" x 3'-1" x .444								
Brackets		10'-6"			10'-6"			10'-6"			10'-6"								
Spacing of Transverse Frames																			
Longitudinal Beams of		Bridge Deck ...												Spacing.					
X, L or X		Upper (CENTRE)																	
		9	3 1/2	.43	9	3 1/2	.43	9	3 1/2	.43	9	3 1/2	.43	33"		29x.42	6x3 1/2x.43	29x.42	6x3 1/2x.43
		9	3 1/2	.43	9	3 1/2	.43	9	3 1/2	.43	9	3 1/2	.43	30"		29x.42	6x3 1/2x.43	29x.42	6x3 1/2x.43
		Lower (WINGS)																	

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.

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 approved plans 26 in number & 6 certificates are enclosed herewith.

Plans to be returned for reference in dealing with later vessels 612 & 617

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

+100 A-1. Carrying petroleum in bulk. ✓
Longitudinal framing at bottom & at deck. ✓ Cruiser Stern. Machinery aft. ✓ E. S. D.
D.F.

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

1st Bower	45-0-14 ✓ J.F.R.	2440.	13-8-34.
2nd "	45-1-4 ✓ J.F.R.	2443	13-8-34.
3rd "	44-1-2 ✓ J.F.R.	2439	13-8-34.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 90.575 ft., R.Q.D. ✓ ft., Bridge 43.25 ft., Forecastle 68.64 ft.

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

No. and Material of Decks

2nd BK clear of cargo lamp. Overall length = 483.29' ✓
One deck steel & poop bridge & rel. ✓

Official No. 166494 ; Signal Letters G.J.G.S. ✓

Is bottom of vessel coated with cement

Cement fitted in P.C. ✓
Water Tank only

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	FW. Water Capacity. Tons.	Where Fitted.	*Length. Feet.	FW. Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	W. Ballast	23.29
Double bottom, under Engines and Boilers,	33.31	118.44	After peak tank,	W. Ballast.	16.00
Double bottom, under Engines only,	7.68	15.32	Deep tank, aft,	in T. BK.	10.00
Double bottom, under Engines only,	23.06	22.00	Deep tank, forward,	Oil fuel.	24.75
Double bottom, forward,	15.39	14.31	Other tanks, if fitted,	Oil fuel bunkers.	9.25
Double bottom, forward,					
Total capacity of double bottom		173.04	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 5545

Date

4.6.37.

Dates of Surveys held while building

1937
Apr 9. 14. 19. 20. 23. 30. May 10. 13. 19. 27 June 4. 7. 11. 15. 16. 18. 29 July 6. 12. 15. 23. 28. Aug 4. 6. 9. 11. 14. 25.
30. 31. Sep. 1. 3. 8. 9. 16. 20. 22. 23. 29 30. Oct. 6. 11. 12. 14. 21. 29. Nov. 3. 5. 9. 15. 23. Dec. 8. 21. 28. 1938
20. 26. 27. Feb. 1. 3. 4. 7. 8. 9. 10. 11. 14. 15. 16. 17. 18. 21. 22. 23. 24. 25. 28. Mar. 1. 2. 3. 4. 7. 8. 9. 11. 16. 17. 18. Apr. 6. 13. 28.
May 3. 16. 17. 25. 26. 30. June 7. 9. 10. 17. 28. July 4. 11.

Total No. of Visits

110