

STEEL STEAMER or MOTORSHIP.

FEB -7 1939

Received at London Office

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

6th February 1939 Port of *Belfast*No. *12305*Survey held at *Belfast*Date First Survey *21st Dec. 1937*Last Survey *30th Jan., 1939*

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

Screw Motor Tanker "CAIRNDALE" (Mchy. aft)

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

*Full Scantling*State Type of Erections *Fele, Short Br., Poop.*

TONNAGE under Tonnage Deck

*7218.76*CLASS *100A1 Carrying Petroleum in Bulk* State if with freeboard as condition of Class

No.

Built at *Belfast*

Do. 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)

FEET.

Launched *25th October 1938* Yard No. *1014*

Total

7218.76

Breadth (greatest moulded)

*B 59.0*Builders *Harland & Wolff, Ltd.*

Gross Tonnage

8128.88

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

*D 34.0*Owners *The Admiralty*

Register Tonnage

*4826.32*1st Longitudinal Number (L x D) = *15640*

Managers

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

REGISTERED DIMENSIONS.

FEET.

Length

465.6

Breadth

59.5

Depth

33.9

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

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

*13.52*Port of Registry *London*

Draught Moulded

27.35

If surveyed while building, afloat, or in dry dock

During construction & in dry dock.

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	<i>3 1/2</i>	✓	Bracket Floors, Frame	✓	
" " <i>from 3 length amidships to Collision bulkhead</i>	<i>27</i>	✓	" " Reversed Frame	✓	
" " in peaks	<i>24</i>	✓	" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>60 x 57 1/2</i>	<i>large plan</i>
Frame Amidships, Angle, <i>E or C</i>	<i>10 3 1/2 44</i>	✓	" " top Angles <i>double</i>	<i>3 1/2 3 1/2 54/30</i>	✓
" " <i>In forward tanks</i>	<i>11 3 1/2 44</i>	✓	" " bottom Angles <i>do.</i>	<i>4 4 62/36</i>	✓
" " Extends up to <i>upper deck</i>			Side Girders, No. each side and thickness	<i>{ 2 @ 60</i>	✓
Reversed Frame Amidships, Angle	✓		<i>{ 1 @ 42</i>	✓	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	<i>54</i>	✓
Depth of Framing Girder	<i>10"</i>	✓	" " Vertical Angle to Tank side	<i>6 6 46</i>	✓
Frames in Uppermost Continuous 'tween Decks, Angle, <i>C or E</i>	✓		" " Bracket abaft 1/2 len. from stem		
" " Second 'tween Decks, Angle, <i>C or E</i>	✓		" " Vertical Angle to Tank side		
" " Third	✓		" " Bracket from forward 1/2 len. from stem to Panting Area		
" " <i>from 1 len. for d. to 15% len. from Stem</i>	<i>11 3 1/2 44</i>	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem		
" " in Peaks, Angle or <i>C</i>	<i>9 3 1/2 40</i>	✓	" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>{ 7/8 @ 4 1/2</i>	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	<i>46 3 flange</i>	✓
" " <i>above fore deck</i>	<i>{ 1 @ 5 1/2</i>	✓			
State if Frame Joggled	<i>Yes</i>	✓	INNER BOTTOM PLATING.		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>As approved</i>	✓	Breadth and thickness of Middle Line Strake	<i>1 1/8</i>	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>As approved</i>	✓	Thickness of remainder in Holds	<i>52</i>	✓
			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?	<i>As approved</i>	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships	<i>8 3 1/2 47/36</i>	✓
Height of Brackets at side above base line at toe of frame			<i>in way of poop. in Wells, Angle, <i>E or C</i></i>	<i>8 3 46</i>	✓
Middle Line Keelson, on Floors, Angles, <i>C or E</i>			" " <i>in way of Bridge, Angle, <i>E or C</i></i>	<i>7 3 42</i>	✓
" " Through Plate or Intercoastal Plate			Spacing	<i>Every frame</i>	✓
" " Foundation Plate on Floors			Second Deck, amidships, Angle, <i>E or C</i>	<i>9 3 40</i>	✓
" " Flat Plate Keel Angles			Spacing	<i>Every frame</i>	✓
Side Keelsons, No. each side			Third Deck, amidships, Angle, <i>E or C</i>	<i>8 3 40</i>	✓
" " thickness of Intercoastal Plate			Spacing	<i>Every frame</i>	✓
" " Angles			Fourth Deck, amidships, Angle, <i>C or E</i>	✓	
DOUBLE BOTTOM, in Mchy. Space			Spacing	✓	
Solid Floors, thickness and spacing	<i>46 @ 30 1/2</i>	✓	Poop Deck, Angle, <i>E or C</i>	<i>8 3 47/34</i>	✓
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>	✓	Spacing	<i>Every frame</i>	✓
Bracket Floors, breadth and thickness at middle line	✓		Bridge Deck, Angle, <i>E or C</i>	<i>7 3 45</i>	✓
" " breadth and thickness at margin plate	✓		Spacing	<i>Every frame</i>	✓
			Forecastle Deck, Angle, <i>E or C</i>	<i>10 3 1/2 40</i>	✓
			Spacing	<i>Every frame</i>	✓

PILLARS AND DECKS.

PILLARS, No. of Rows.....	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
Stringer Plate, breadth and thickness in way of Bridge									
Thickness of Plating abreast Deck openings in way of Wells									
Thickness of Plating abreast Deck openings in way of Bridge									
Thickness of Plating within line of openings						34 x 32			
If Sheathed, material and thickness									
Third Deck. Fore Deep Tank Top									
Stringer Plate, breadth and thickness						42			
If Plated, state thickness						38			
Fourth Deck.									
Stringer Plate, breadth and thickness									
If Plated, state thickness									
Poop Deck.									
Stringer Plate, breadth and thickness						37			
Plating, Sheathing, material and thickness						26 sheathed 25' OP			
Bridge Deck.									
Stringer Plate, breadth and thickness						62 1/2 x 43			
Plating, Sheathing, material and thickness						34 Sheathed 2' Comp. inside lower only			
Forecastle Deck.									
Stringer Plate, breadth and thickness						42 1/2 x 37			
Plating, Sheathing, material and thickness						36 unheathed			

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		RIVETS.		No. of Rows of Rivets.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.		Diam.	Spacing cr. to cr.			
	Inches.	Inches.	Inches.	Inches.				Inches.	Inches.			
FLAT PLATE KEEL	57	96	78	78		Double		1"	4"	Five	1 1/8"	4 1/2" Lapped
" DBLG. (if any)												
BOTTOM PLATING, No. of Strakes		67 1/2	64	74 x 50	55 x 50	do		7/8"	3 1/2"	Four	7/8"	3 1/2" do
BILGE PLATING, No. of Strakes		64	50	55		do		7/8"	3 1/2"	Four	7/8"	3 1/2" do
SIDE PLATING, No. of Strakes		64	50	50		do		7/8"	3 1/2"	Four	7/8"	3 1/2" do
UPPER DECK, Sheer-strake in Wells	67	99	50	50		do		1"	4"	Five	1 1/8"	5" do
UPPER DECK, Sheer-strake in Bridge ...	67	99				do		1 1/8"	4 1/2"	Five	1 1/8"	5" do
STRAKE BELOW Sheer-strake in Wells	84 1/4	76	50	50		do		1"	4"	Four	1"	4" do
STRAKE BELOW Sheer-strake in Bridge ...	84 1/4	76				do		1"	4"	Four	1"	4" do
POOP SIDE PLATING				40		One strake				Two	3/4"	2 5/8" do
BRIDGE SIDE PLATING ...		43				One strake				Two	3/4"	2 5/8" do
FORECASTLE SIDE PLATING			43			Single		7/8"	3 1/2"	One	3/4"	2 5/8" do

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel -					
Extending to Upper Deck (Sec. 3 c) 16					
Deck next below 1					
As per Rule (ordnary cargo) 7					
	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHD.	Centre tank	51	10 x 3 1/2 x 40	33	19 x 3 1/2 x 42
	Upper tween decks	Coaming			Lower 33 x 40
	Second	vertical			10 x 3 1/2 x 58
	Third Wing tank	50	10 x 3 1/2 x 40	30	19 x 3 1/2 x 40
	Holds	vertical			3 1/2 x 3 1/2 x 40
COLLISION	(in Hold)	53/33	9 x 3 1/2 x 45	24	36 x 2 semi-bulk head
AFTER PEAK		50/30	9 x 3 1/2 x 45	24	Boiler flat
			5 x 3 x 40		

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, un Flat plate				
STEM		Rolled 10 1/2 x 2 1/2		
STERN FRAME	Propeller Post	cast	As appd Keizer	
	Rudder	Steel	Plan attached	
Speed of Vessel				
RUDDER-Type				
" A x D			Simplex Balanced	
" Diam. of head			Rudder made by	
" Mainpiece at top pintle			Deutsche Werft AG.	
" " heel			Hamburg. in accordance	
" how constructed			with approved plan	
" double or single plate			(See attached copy of	
" coupling, vertical or			Hamburg. Sub. Report)	
" horizontal				


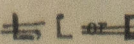
STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Colvilles Ltd., Lanarkshire Steel Co., So. Durham Steel & Iron Co., Bousset Iron Co., Steel Co. of Scotland.*

Has the Steel been tested as required by the Rules? *Yes.*

Rp 1*.

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. Inches.	Rivets in Brackets to Bulkheads.	
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.	Speng.	Number.		Diameter.	
Framing of 																	
Frames in Bridge 'tween Decks ...																	
Frames from Uppermost Continuous Deck to Centre Girders No. 1																	
" 2																	
" 3																	
" 4																	
" 5																	
" 6																	
" 7																	
" 8																	
" 9																	
" 10																	
" 11																	
" 12																	
" 13																	
" 14																	
" 15																	
" 16																	
Spacing of Longitudinal Frames																	
Amidships																	
At Ends																	
Double Bottoms																	
Tank Top Longitudinals																	
Bottom																	
Spacing of Longitudinals																	
Amidships																	
At Ends																	
Transverses.																	
In Bridge 'tween Decks																	
Depth and Thickness																	
Face Angles																	
Lugs to Shell																	
In Upper 'tween Decks																	
Depth and Thickness																	
Face Angles																	
Lugs to Shell																	
In Hold.																	
Depth and Thickness																	
Face Angles																	
Lugs to Shell																	
Back Bars																	
Brackets																	
Spacing of Transverse Frames																	
State if joggled or liners.																	
Longitudinal Beams of 																	
Bridge Deck																	
Upper																	
Second																	
Third																	

The particulars of framing in peaks (if ordinary), Floors, Centre Girders, 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.)

as assigned, verified & cut in, and certificates and copy issued.
This vessel is in general respects sister to the Motor Tankers "DROMUS" & "DONAX" built for the Anglo-Saxon Petroleum Co. by Messrs Harland & Wolff at their Govan Shipyard.

A plan of Midship Section as built is forwarded herewith, and also the approved plans as per attached list.

The following Forgery and Casting Reports are enclosed:

Stem Frame
Rudder Shaft
Rudder Stock
Main Tiller
Spare Tiller
Report on "Simplex" Rudder.

flc.

PARTICULARS OF ELECTRIC WELDING (if employed) Ends of bars on face side of oil-tight bulkheads welded as indicated on approved plan.
Elsewhere - non-structural items only.

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

Oil Eng., 1 Mch. aft., 1 Cruiser

Stem., D.F., E.S.D. ✓

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	43. 2. 11	VE 328	11. 3. 38	wt. of head including pin	48. 0. 0
	2nd "	43. 2. 11	EE 309	24. 2. 38	" " "	48. 0. 14
	3rd "	43. 2. 22	FE 327	11. 3. 38	" " "	48. 0. 14

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 92.6 ft., R.Q.D. ✓ ft., Bridge 44.3 ft., Forecastle 51.0 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. No.

Official No. 167165 Signal Letters Extreme Breadth over Belting No belting ✓ Over-all Length 483.0' ✓
(Circ. 1611) (Circ. 1703)
No. and Material of Decks 1st & 2nd (Stl) 2nd & 3rd clear of cargo tanks ✓
Parts of Bottom of Vessel coated with cement or approved composition None
Particulars of composition (if fitted) and of approval None

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft, under Engines	69.5	155.8	Fore peak tank,		145 ✓
Double bottom, under Engines and Boilers,			After peak tank,		88.3 ✓
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	24.7	282.4 ✓
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 873

Date 8th Dec. 1937.

Dates of Surveys held while building

1937 1938
Dec 21 Jan 4 13. 20. 24 Feb 4. 11. 16. 21. 23. 25 Mar 1. 7. 9. 11. 14. 16. 18. 21. 23. 28. 30 Apr 4. 5.
7. 11. 13. 14. 15. 20. 21. 22. 25. 27. 28 May 2. 4. 6. 9. 10. 11. 13. 16. 17. 18. 19. 20. 23. 24. 25. 26. 31 June 2.
3. 7. 10. 17. 27. 29. 30 July 4. 6. 7. 13. 19. 21. 26. 27. 29. Aug. 1. 3. 5. 10. 16. 19. 22. 26. 29. 30. 31
Sept 1. 2. 6. 7. 8. 9. 12. 13. 14. 15. 16. 19. 21. 22. 23. 27. 28. 30 Oct. 3. 5. 10. 11. 14. 17. 19. 20. 21. 24. 25. 27
Nov. 2. 8. 10. 11. 14. 15. 16. 17. 18. 21. 29 Dec 14. 20 1939 Jan 2. 4. 6. 9. 11. 12. 16. 17. 18. 19. 20. 23
27. 30.

Total No. of Visits 139

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Lloyd's Register
Foundation