

State if Report has been sent on the Freeboard of the Vessel Yes.

State if Report is sent on the Machinery of the Vessel from Newcastle

Date of completion of report January 5th 1934 Port of Sunderland No. 31348
Survey held at Sunderland Date First Survey May 4th 1933 Last Survey January 5th 1934

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

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

State Type of Erections Poop, Br: & 4/12.

**TONNAGE under
Tonnage Deck.**

3815

CLASS +100A1

State if with freeboard
as condition of Class

720
FEET

Built at Sunderland

Launched Nov^r 2^d 1933. Yard No. 443.

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

Length from fore part of stem to after part of stern } L 360.0
post on summer L.W.L. See Sec. 3 (1a) }

Breadth (*greatest moulded*) B 51.75

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) } D 26.75

1st Longitudinal Number ($L \times D$)..... = 9, 630

2nd Numeral $L \times (B + D) \dots\dots\dots = 28,260$

Framing Depth "d," at middle of length. See } 13.45
Sec. 3 (1d)

Proportions—Depth to Length—Uppermost continuous deck to top of keel } 13' 4"

Do. Long Bridge to top of keel } 10.43

Draught Moulded **22-52.**

Managers Isherwood Arcform Slip ¹¹
(Where necessary to be entered in Reg. Book.)

Residence 4 Silbonds Avenue E.C.3.

Port of Registry London

If surveyed while building, ^aafloat, ~~or in dry dock~~

Yes. and in hydroc.

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.
NAMES, Spacing amidships	28.	/	Bracket Floors, Frame	-
" " from $\frac{3}{4}$ length to Collision } bulkhead..... }	28.	/	" " Reversed Frame	-
" " in peaks.....	24.		" " Vertical Struts	-
DE FRAMING.			Centre Girder, depth and thickness amidships	38 x .49.
Frame Amidships, Angle, [or] N.B.S.	11 $3\frac{1}{2}$.49.	/	" " top Angle	55 .47
" " Extends up to	upper deck	/	" " bottom Angles	66 .53
Reversed Frame Amidships, Angle	-		Side Girders, No. each side and thickness	None.
" " Extends up to ...	-		Margin Plate depth (excl. of flange) and thickness	35 $\frac{1}{2}$ x .45.
Depth of Framing Girder.....	11		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	66 .37
Frames in Uppermost Continuous 'tween } Decks, Angle, [or]	-		" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem	66 .37
" " Second 'tween Decks, Angle, [or]	-		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	Every 4 x 3 $\frac{1}{2}$ x 52
" " Third " " " "	-		" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem.....	Every 4 x 4 x 56
Framing in Peaks, Angle or [] N.B.S.	7 $3\frac{1}{2}$.35	/	Tank Side Brackets, height above base line at toe of Frame and thickness)	44 $\frac{1}{2}$ x .44
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	$\frac{7}{8}$ - 6 apart	/ 7 dia.	INNER BOTTOM PLATING.	
State if Frame Joggled	No.		Breadth and thickness of Middle Line Strake ...	74 x .44.
STRENGTHENING ARRANGEMENTS (Sec. 7), state system and particulars)	Deep 4 in Stringer for 15 x 4 x 4 1/2 BS 4 Stringer 40 face bar 5 x 3 x 4 1/2 two stringers shell 50 to 62 ft Bottom Rungs graduated from 30" to 21" 2 x 3 x 40 Vert on Floor Floor & Monob 2 x 4 x 4 Solid floor 4-8	54 ?	Thickness of remainder in Holds .....	.38
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars			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.
SINGLE BOTTOM.			BEAMS.	
Floors, Depth and thickness at mid-line in Holds	-		Uppermost Continuous Deck, amidships } in Wells, Angle, [or]	Longitudinal
Height of Brackets at side above base line at toe of frame	-		" " in way of Bridge, Angle, [or]	Framing
Middle Line Keelson, on Floors, Angles, [or]	-		Spacing	-
" " Through Plate or Intercoastal Plate... }	-		Second Deck, amidships, Angle, [or]	-
" " Foundation Plate on Floors	-		Spacing.....	-
" " Flat Plate Keel Angles	-		Third Deck, amidships, Angle, [or]	-
Side Keelsons, No. each side	-		Spacing.....	-
" " thickness of Intercoastal Plate...	-		Fourth Deck, amidships, Angle, [or]	-
" " Angles	-		Spacing.....	-
DOUBLE BOTTOM.			Poop Deck, Angle, [or]	Longitudinal Framing
Solid Floors, thickness and spacing	38 - 9' 4"	/	Spacing.....	-
" " Are Frame and Reversed Frame joggled?.....	No	/	Bridge Deck, Angle, [or]	-
Bracket Floors, breadth and thickness at middle line.....	-		Spacing.....	-
" " breadth and thickness at margin plate.....	-		Forecastle Deck, Angle, [or]	-
			Spacing	-

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.....	One	/	Stringer Plate, breadth and thickness in way of Bridge	-	
" Bridge in between Decks, Size and Spacing.....	b b .80 <i>as approved</i>	/	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...	-	
" " " " "			If Sheathed, material and thickness	-	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	12x3 $\frac{1}{2}$ x45 B.A. n.B Stk 5 $\frac{1}{2}$ x3x32 B.A. <i>Spaced 4' 8" h 3-11'</i>	X	Stringer Plate, breadth and thickness.....	-	
Plating, thickness of .....	.30 ✓	✓	If Plated, state thickness.....	-	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	-	
Stringer Plate, breadth and thickness in Wells	78x.78 ✓	✓	If Plated, state thickness	-	
" " " " in way of Bridge	(85)x.36 ✓	✓	Poop Deck.		
" Angle in Wells	b b .83		Stringer Plate, breadth and thickness .....	.34	✓
Thickness of Plating abreast Deck openings) in way of Wells .....	.58 /	/	Plating, Sheathing, material and thickness ...	.32+.28 2 $\frac{1}{2}$ P.P. <i>plated sheathed.</i>	✓
Thickness of Plating abreast Deck openings) in way of Bridge .....	.32 ✓	✓	Bridge Deck.		
Thickness of Plating within line of openings...	.39+.36 /	/	Stringer Plate, breadth and thickness.....	(66)x.40 ✓	✓
If Sheathed, material and thickness	✓		Plating, Sheathing, material and thickness ...	.37.	✓
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	✓		Stringer Plate, breadth and thickness.....	.34 ✓	✓
			Plating, Sheathing, material and thickness ...	.32.	

SHELL PLATING.

SCANTLINGS.						RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>No.</i>			BUTTS. <i>✓</i>			
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.		Spacing cr. to cr.
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	47½	.65	.63	.63	✓	Double	7/8.	3 3/8.	4	7/8	3½	Gapped.
„ DBLG. (if any)	✓	✓	✓	✓								
BOTTOM PLATING, No. of Strakes	1	.53	.44	.44		Double	7/8	3 3/8	3	7/8	3	"
BILGE PLATING, No. of Strakes	2	.51	.50	.47		Double	7/8	3 3/8	3	7/8	3	"
SIDE PLATING, No. of Strakes	2	.53	.44	.44	✓	Double	7/8	3 3/8	3	7/8	3	"
UPPER DECK, Sheer-strake in Wells.....	2	.53	.42	.42	✓	Double	7/8	3 3/8	3	7/8	3	"
UPPER DECK, Sheer-strake in Bridge ...	82	.73	.42	.42	✓	Double	1.	4	4	1	4	"
STRAKE BELOW Sheer-strake in Wells.....	82	.53	-	-		Double	7/8	3 3/8	3	7/8	3	"
STRAKE BELOW Sheer-strake in Bridge ...	77½	.64	.42	.42	✓	Double	7/8	3 3/8	4	7/8	3½	"
POOP SIDE PLATING	77½	.53	-	-		Double	7/8	3 3/8	3	7/8	3	"
BRIDGE SIDE PLATING ...	-	-	-	.36	✓	Single	7/8	3 3/8	1	7/8	3.	"
FOREO'TLE SIDE PLATING	79	.51	-	-		Double	7/8	3 3/8	4 <i>with strake</i>	7/8	3½	"
	✓	-	.40	✓		Single	7/8	3 3/8	1	7/8	3.	"

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Casting or Forging.		Scantlings.		Maker's Name.		Any departures from approved plans to be noted.				
Extending to Upper Deck (Sec. 3 c)		b.										
,, Deck next below		✓										
As per Rule		b.										
	Plating Thickness.	STIFFENERS.				RUDDER—A×D.....	Speed of Vessel.....	RUDDER mainpiece at head ...	,, ,, heel ...			
		VERTICAL.		HORIZONTAL.						how constructed	double or single plate	coupling, vertical or horizontal.....
		Scantlings.	Spacing.	Scantlings.	Spacing.							
MIDSHIP BULKH'D, Upper tween decks	✓					438	10½ knots	Cast 10×7¼	Strommen			
,, ,, Second ,,	✓							Steel 6½×6	Verlsted			
,, ,, Third ,,	✓											
,, ,, Holds 76	49-32	15×4×14 1/2	45-40					arms at puntles				
COLLISION ,, (in Hold)	49-26	10×3×10 1/2	24	Semi-bois beam				• 38				
AFTER PEAK ,, ,,	75-30	5×3×30	24	Semi-bois beam				Vertical	© 2020			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
 Cargo Fleet, Dorman Long, Consett, South Durham.

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.)

The freeboard marks have been verified and cut in on the vessels' sides.
The windlass and steering gear have been tried under steam and found to be working satisfactorily.
The following approved plans are enclosed:—Midship Section, Profile & Decks, Extent of A-frame, Amended Hatch end scantlings, main deck girders and transverses, tank side frames, Rudder and stem frame, Gasket connections at Hatch sides and girders, After Peak bulkhead modification, Watertight bulkheads, Steel Hatch covers, Cruise Stem Framing (13 plans).

Plans of midship section and profile and decks as built will be forwarded shortly.
3 Certificates are forwarded:—Stem, Yell, Stemframe and Rudder.

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

1st Bower	31-3-24	M.B.	4242	26.1.31.
2nd "	32-2-15	M.B.	4244	26.1.31.
3rd "	30-0-10	M.B.	4240	13.3.29.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 33 ft., R.Q.D. ✓ ft., Bridge 122 ft., Forecastle 306 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 OK: STL:

Official No. 163432; Signal Letters G.W.R.M. (per Rf) Is bottom of Vessel coated with cement, under B.D. not give particulars of composition remainder cement washed.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	95	191	Fore peak tank,	19	75.
Double bottom, under Engines and Boilers,	21	66	After peak tank,	21	177
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	168	446	Other tanks, if fitted,		
		703	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 5770

Date 12.5.33.

Dates of Surveys held while building

1933. May 4, 9, 10, 18, 23, 29, 30 June 2, 14, 26 July 6, 11, 12, 18, 19, 20, 25, 27, August 1, 3, 8, 14, 21, 23, 29 Sep 1, 6, 8, 14, 21, 26, 27, 29. Oct 4, 6, 9, 10, 11, 12, 13, 16, 18, 23, 26, 27, 30. Nov 1, 2, 8, 14, 20, 21. Dec 1, 5, 1934. Jan. 5

Total No. of Visits 54.

Rot. 4.

No. 90900

(LLOYD'S REGISTER.)

VESSELS OF 100 TONS AND UPWARDS.

G.L. Lloyd's Register.

S. S. "Arcwear" Sunderland Report No. 31348.

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.		
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.	Spacing.	Number.
ing of L, L or C	13.9.			✓			13.9.						7/8	5 1/4	✓
in Bridge 'tween Decks ...	6	3	.32				6	3	.32						
from Uppermost Continuous															
ck No. 1															
" 2															
" 3															
" 4															
" 5															
" 6															
" 7															
" 8															
" 9															
" 10															
" 11															
" 12															
" 13															
" 14															
" 15															
" 16															
ing of tudinal nes															
Amidships															
At Ends															
le Tank Top Longitudinals	5 1/2	3	.32	5 1/2	3	.32	5 1/2	3	.32	5 1/2	3	.32	7/8	5 1/4	✓
Bottom	6	3 1/2	.36	6	3 1/2	.36	6	3 1/2	.32	6	3 1/2	.32	7/8	5 1/4	✓
ing of Longitudinals															
Amidships															
At Ends															
Transverses.															
Depth and Thickness	2 large plates built up of 12" x 38" min.														
Face Angles	3" fl.														
Lugs to Shell	3 3 .38														
Depth and Thickness	no seam.														
Face Angles															
Lugs to Shell															
Depth and Thickness															
Face Angles															
Lugs to Shell															
Back Bars															
Brackets															
ing of Transverse Frames															
State if jogged or liners.															
itudinal	5 1/2	3	.30				5 1/2	3	.30				39"		
Bridge Deck															
Upper	9 x 3 1/2 x 40 ft. 13.5			9 x 3 1/2 x 40 ft. 13.5			9 x 3 1/2 x 40 ft. 13.5			9 x 3 1/2 x 40 ft. 13.5			12 x 36	3 x 3 x 52	12 x 36
Second	6 x 3 x 34			6 x 3 x 34			6 x 3 x 34			6 x 3 x 34			12 x 36	3 x 3 x 52	12 x 36
Third													12 x 36	3 x 3 x 52	12 x 36

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.

Manufacturer.

0055 3/3

Lloyd's Register Foundation