

LL. 4.C.

THE BRITISH CORPORATION REGISTER OF  
SHIPPING AND AIRCRAFT

72.

"LEANDROS"

SURVEY FOR FREEBOARD

STEAMER, ~~TANKER, SAILER~~ : EX. CRAGPOOL S.S.

WITHOUT TIMBER DECK CARGO

Nationality

British

Builders' Name and No. of Ship

Port of Registry

~~West Hartlepool~~ LONDON

Cowpen D.D. &amp; S.B. Co. Ltd., Blyth. N° 242

Official Number

160756

Owners

Pool S. Co. Ltd.

Gross Tonnage

5127

Date of Build

7/1928

Port and Date of Survey Newcastle; 5<sup>th</sup> April 1932

Name of Surveyor George Buchanan

Particulars of Classification

B.S.\*

Names of Sister Ships

"RUSHPOOL"

Type of Superstructures

Poop, Bridge and Forecastle

Give full particulars of the following :—

Fiddley and Funnel Coamings (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

Fiddley &amp; Funnel coamings 7' 3 1/2" high; fiddley covers of steel plate hinged and permanently attached in their proper positions

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

None.

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

None.

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

On Tackle 12 1/2" high x 6" dia; 4 bolts; 33" x 15" x 3 1/2" rivets; In Wells - none; on Bridge 30" x 15" x 3 1/2" rivets; 12" high x 6" dia; 4 bolts. On Poop. 30" x 11" x 3 1/2" rivets. Wood plugs and canvas covers.

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided) on Tackle 8 1/2" high; in Wells - none; on Bridge 19" high, 10" high and 29 1/2" high. on poop.

Wood plugs and canvas covers have been fitted to all airpipes

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves) Scupper in Wells of iron - collinson's type, also on Bridge; in Bridge iron elbows filled solid with cement. Sanitary discharges of iron with non-return valves; and of lead with iron non-return valves.

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

Below freeboard deck none. In forec only, fitted with permanent dead lights

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Rails and Stanchions on poop, tackle and ends of bridge.



[illegible]

Length on summer load line  $44'-9"$  Moulded Breadth  $53'-9\frac{1}{2}"$  Moulded Depth  $29'-9\frac{1}{2}"$  Depth of Keel  $7'$

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth  $12,595$  Tons

Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times .85} = .711$  ✓  
T.C.  $.76$

Displacement & tons per inch immersion in salt water at summer load line  $12338 + 4520$

Moulded depth  $29.791$  ✓

Stringer Plate  $"5"$  =  $.042$  ✓

Sheathing on exposed deck T  $(\frac{L-S}{L})$  none

Rise of floor (in sailers)

Depth for Freeboard (D)  $29.833$  ✓

Table Depth  $L/15$   $27.983$  ✓

Depth Correction  $3 \times 1.85 = 5.55$  ✓

Correction Difference  $\frac{4}{E} \times (1 - \frac{E}{L}) = .0225 \times .2524 = .0054$  ✓

Deduction for Fresh Water  $59.1$  ✓

Round of Beam Correction  $52.27$

Ships Round of Beam  $13'$  inches

Standard Round of Beam  $Bx12/50$   $12.91$  ✓

Difference  $.09$  ✓

Restricted to Correction  $.0054$  ✓

	Mean Covered Length (S)	Height Correction	Effective Length (E)	Standard Height of Superstructure	
Poop	33.5 ✓	29 ✓	7.5 ✓	33.79	-
Keel				33.64	
Percentage covered S/L =					74.84 ✓
Bridge	238 ✓	F 29 ✓ A 29 ✓	7.5 ✓	238.58 ✓	238.34 ✓
Percentage covered E/L =					74.76 ✓
Forecastle	41 ✓	75 ✓	7.5 ✓	41.75 ✓	41.75 ✓
Percentage covered from Table line A, B, (corrected for absence of forecastle if required)					68.86 ✓
Trunk Aft					
Percentage from Table by interpolation for Bridge less than 2L if required =					
Forward					
Deduction =					42.2 - 68.86 = 22.92 ✓
Tonnage Opening Aft					
Percentage from Table for Tankers (or Timber ships) =					
Forward					
Deduction =					
Totals				314.12 ✓	313.75 ✓

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	54	51.97	54	1	54
1/2 L from A.P.	24.25	23.13	24.25	4	97
1/2 L from A.P.	6	5.72	6	2	12
Amidships	0	0	0	4	0
1/2 L from F.P.	12	11.44	12	2	24
1/2 L	48.5	46.26	48.5	4	194
F.P.	108	103.95	108	1	108
				18	489
Effective Mean Sheer					27.167
Standard " " -05L+5					25.987
Difference					1.180

Mean Actual sheer aft = over .1 ✓  
 " Standard " " "

Mean Actual sheer forward = over .1 ✓  
 " Standard " " "

Length of enclosed superstructure forward of amidships = exceeds 1L  
 Length of Ship

Length of enclosed superstructure aft of amidships = exceed .1L  
 Length of Ship

Sheer Correction = Difference X (75 -  $\frac{L}{2}$ ) =  $1.18 \times 37.58 = 44.34$  ✓  
 = 44.34" off ✓

If limited on account of midship superstructure =  
 " to maximum allowance of 1 1/2 ins. per 100 ft. = ✓

over .1 ✓

over .1 ✓

exceeds 1L

exceed .1L

$1.18 \times 37.58 = 44.34$  ✓

44.34" off ✓

TABULAR FREEBOARD ~~corrected for flush deck if required~~ = 77.72 ✓  
 Correction for co-efficient =  $\frac{1.451}{1.36} \times 77.72$  = 82.92 ✓  
 DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailor, Tanker, Steamer	Timber
Depth correction	5.55	✓		
Deduction for superstructures	28.92	✓	Depth to Freeboard Deck in feet	29.833 ✓
Sheer correction	.44	✓	Summer Freeboard in feet	4.926 ✓
Round of Beam correction	.01	✓	Moulded Draught (d)	24.907 ✓ (d1.)
Correction for thickness of deck amidships ✓			Addition for Keel $1\frac{1}{2}''$	
Other corrections, scantlings, etc. ✓			Extreme draught	25.042 ✓
	5.55	29.57 ✓	Deduction for Tropical and addition for Winter freeboard $d/4 =$	6.23 ins. ✓
Summer Freeboard in inches		59.1 ✓	Addition for Winter North Atlantic (if required)	= ins.
Additional allowance for superstructures on	W	6.83 ✓	Deduction for Tropical Timber Freeboard $d/4$	= ins.
Timber carrying ships	T	52.87 ✓	Addition for Winter " " $d/1$	= ins.
Summer Timber Freeboard in inches			N.A. Timber Freeboard (if required)	= ins.

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (wood...steel)					Corresponding Freeboard
TROPICAL FRESH WATER line above centre of disc	13"	✓	331	3-11"	1168
FRESH WATER LINE	7"		174	4'-4"	1221
TROPICAL LINE	6"		153	4'-5"	1346 ✓
WINTER LINE below	6 <sup>1</sup> / <sub>2</sub> "	✓	165	5'-5 <sup>1</sup> / <sub>2</sub> "	1444 = 11/2
WINTER NORTH ATLANTIC LINE	—			—	


  

SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line					Corresponding Freeboard
TROPICAL FRESH WATER Timber line above centre of disc					
FRESH WATER	"	"	"	"	"
TROPICAL	"	"	"	"	"
WINTER below	"	"	"	"	"
WINTER NORTH ATLANTIC	"	"	"	"	"

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	38	38	6 x 3 x 40A	30"	Lugs Feb.	20 4'-6" x 3'-1"	24"	—
<del>R.Q.D.</del>						20 4'-6" x 1'-11"	18"	—
Bridge Aft Bulkhead	38	38	4 1/2 x 3 x 32	36	—	20 4'-6" x 3'-0"	24"	—
" Forward "	44	44	9 x 3 x 44 B.A.	30"	Lugs T. & B.	20 3'-0" x 3'-0"	42"	—
Forecastle Bulkhead	30	30	3" Rq.	36	—	20 4'-9" x 1'-11"	19 1/2"	—
Trunk, Aft						40 4'-6" x 1'-10"	18 1/2"	—
" Forward								—
Exposed Machinery Casings on								—
Freeboard or R.Q. Decks								—
<del>Exposed</del> Machinery Casings on	Exposed 38	74	3 x 3 x 3	28"		BLR 4'-6" x 1'-10"	18 1/2"	7'-3 1/2"
superstructure decks	Protected 38	do	do	do		ER 4'-6" x 1'-10"	19"	
Machinery Casings within Super-	E 36	74	3 x 3 x 3	28"		BLR 4'-6" x 1'-10"	20"	7'-6"
structures not fitted with Cl. 1.	B 40							
closing appliances								
Deckhouses on flush deck ships								

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	Weatherboards full height in channels riveted to bulkhead.
R.Q.D. "	2 steel doors, and 2 riveted plates with loose bolts, 12" apart.
Bridge Aft Bulkhead	<del>Weatherboards full height in channels riveted to bulkhead.</del>
" Forward "	Hinged steel flaps with <del>the</del> turnbuckles operated both sides
Forecastle Bulkhead	2 Wood doors; 4 stl doors
Exposed Machinery Casings on Freeboard or R.Q. decks	
Exposed Machinery Casings on superstructure decks	to bil room of steel, operated both sides
Machinery Casings within superstructures not fitted with Cl. 1. Closing Appliances	to Eng. " " "
Deck houses on Flush Deck ships	to bil room of stl. operated both sides

PARTICULARS OF FREEING ARRANGEMENTS					Area each side	Rule Area
	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side			
After Well	62'-9" <del>65'-5"</del>	4-0	3 @ 2'-9" x 1-8		13-77 $\frac{1}{2}$	12-97 $\frac{1}{2}$
Forward Well	42'-10 $\frac{1}{2}$ " <del>44'-0"</del>	4-0	2 @ 2'-9" x 1-11 $\frac{1}{2}$		10-78 $\frac{1}{2}$	10-59 $\frac{1}{2}$
State fore and aft position and height above deck to bottom of port, for each port		After Well	5'-5" $\frac{1}{2}$ , 2'-3" $\frac{1}{2}$ , 5'-1"			
		Forward Well	9'-4", 2'-5" $\frac{1}{2}$			all 12" size
State whether freeing ports are fitted with shutters, bars or rails, and give particulars						

all with 2 rods. ✓  
Give particulars of freeing port area, etc., on superstructure decks  
rails on poop + Yell and at ends of bridge; bulwark 121-9" x 3'-0 1/2"  
on bidge amidships, with one port 17 1/2" x 11" x 10 1/2" sill.



## PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

[illegible]

Surveyors are to note that wood fore and afters are to be steel shod at all bearing surfaces.]

3 rings for lashing each hatch.

Gangways and Lifelines of wire rope fitted P. & S. shackled to <sup>well</sup> sides of ladders; portable stanchions 12'-0" apart aft <sup>well</sup> and 9'-0" forward; lugs on deck welded.

Gangway, Cargo and Coaling Ports in sides of ship *none*

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

## Do Superstructures and Machinery Casings comply with rules?

Is provision made for protection of steering gear, and is emergency steering gear provided ?

Are efficient uprights, sockets and lashings provided according to rules?

**State particulars of longitudinal subdivision in double bottom**

### State particulars of Bulwarks and Rails

Approval date of plans and full particulars of arrangements for stowing and securing timber

The scantlings and protective arrangements being in accordance with the Freeboard rules it is submitted that the freeboard be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the

20<sup>th</sup> July 1932

~~Chief Surveyor.~~

Assistant Chief Surveyor

Secretary.