

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.Computation of Freeboard for ~~Steamer, Sailing Ship, Tanker~~

having

FORECASTLE.

Port of Survey

SOUTHAMPTON.

(Type of Superstructures.)

Date of Survey

28th OCTOBER 1932.

Ship's Name

SS. SHELL Mex. L.

Nationality and Port of Registry

BRITISH

LONDON.

Official Number

146194

Gross Tonnage

423

Date of Build

1921-12 mo

Name of Surveyor

J. Anderson

Moulded Dimensions: Length 140.5 Breadth 24.5 Depth

Moulded displacement at moulded draught = 85 per cent. of moulded depth tons

Coefficient of fineness for use with Tables

Particulars of Classification

+100A1

CARRYING PETROLEUM IN BULK
S.S. Lon. No. 2-30-1 oil fuel 12.21. Flammable

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate		Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Ship's Round of Beam = 7
Depth for Freeboard (D) =	If restricted by superstructures	Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	✓				
" overhang	✓				
R.Q.D. enclosed	✓				
" overhang	✓				
Bridge enclosed	✓				
" overhang aft	✓				
" overhang forward	✓				
File enclosed	16'-0"		6'-5"		
" overhang	✓				
Trunk aft	✓				
" forward	✓				
rid onnage opening aft	✓				
" " forward	✓				
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L} =$ " " $\frac{S_1}{L} =$ " " $\frac{E}{L} =$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{8}$ L from A.P.		4				4	
$\frac{2}{8}$ L " "		2				2	
Amidships		4				4	
$\frac{3}{8}$ L from F.P.		2				2	
$\frac{4}{8}$ L " "		4				4	
F.P.		1				1	
Total							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) =$

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = Ft.

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40T}$ inches

=

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck

Tropical Fresh Water Line above Centre of Disc

Fresh Water Line " "

Tropical Line " "

Winter Line below " "

Atlantic Line " "

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway		TO CARGO TANKS 6-OFF	TO FORWARD HOLD	TO COFFER DAM 2-OFF	TO AFT PEAK TANK	TO O.FUEL BUNKERS 2-OFF			
Dimensions of Hatchway		8'-7" x 2'-6"	18" DIA R	18" DIA R	18" DIA R	2'-6" x 1'-6"			
COAMINGS	Height above Deck	36"	18"	18"	18"	14" ABOVE HATCH CASING			
	Thickness { Sides	5/16"	1/4"	1/4"	1/4"	5/16"			
	Stiffeners ...	4" x 3" a	✓	✓	✓	✓			
	Brackets, Stays	✓	✓	✓	✓	✓			
HATCH BEAMS	Number ...	STRONG	STEEL			STRONG			
	Spacing ...	STEEL	PLATE			STEEL			
	Scantling and Sketch	COVERS SECURED BY	COVER SECURED BY	← SAME		COVERS SECURED BY			
	Bearing Surface	16-3/4"	25-5/8"	← SAME		10-3/4"			
FORE AND AFTERS	Number ...	HINGED	BOLTS			HINGED			
	Spacing ...	BOLTS				BOLTS			
	Unsupported Lengths								
	Scantling* and Sketch								
	Bearing Surface								
HATCH COVERS	Material ...								
	Thickness ...	✓	✓	✓	✓	✓			
	How fitted								
	Bearing Surface								
Spacing of Cleats									
Number of Tarpaulins		✓	✓	✓	✓	✓			

* Are wood fore and afters steel shod at all bearing surfaces? ✓

Are battens and wedges efficient and in good condition? ✓

Are tarpaulins in good condition and in accordance with rule requirements? ✓

Are lashings provided in accordance with rule requirements? ✓

Are wood fore and afters steel shod at all bearing surfaces? ✓
Are battens and wedges efficient and in good condition? ✓
Are tarpaulins in good condition and in accordance with rule requirements? ✓
Are lashings provided in accordance with rule requirements? ✓

Stakehold gratings covered by strong steel hinged covers.
Fiddley & funnel ventilators in efficient condition
Engine skylight of steel strongly constructed
Pump room skylight of steel strongly constructed.

Particulars of Flush Bunker Scuttles:—

NONE

Particulars of Companionways :—

NONE

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—

2- " 8" " 33" COAMINGS ON FORECASTLE.
2- " 9" " 36" " ON PUMP ROOM CASING - TO PUMP ROOM.

Efficient means of
Closing provided

of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

NECK AIR PIPES - 4 1/2" TO MOUTH ON FOREBOARD DECK TO FORE HOLD BILGE. ✓
" " PIPE - 4" " " " " " " TO AFT PEAK TANK. ✓

efficient means of
closing provided

ay Cargo and Coaling Ports:—

Particulars of Scuppers and Sanitary Discharge Pipes:—

2-3 1/2" DIAM. SAN. DISCHARGES, LEAD PIPES, C/IRON STORM VALVES.

Particulars of Side Scuttles:—

SIDE SCUTTLES IN FORECASTLE (ABOVE FREEBOARD DECK) FITTED WITH HINGED DEADLIGHTS.

Particulars of Guard Rails:—

GUARD RAIL ON FORECASTLE 2-BARS 3'-3" HIGH, STANCHIONS 4'-6" PITCH
" " " FREEBOARD DECK 2-BARS 3'-6" HIGH, STANCHIONS 5'-0" PITCH.

Particulars of Gangways, Lifelines, etc.:—

Lifelines & Stanchions fitted for use of the crew in the regular working of the ship.

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well END ...	45 FEET	3'-0"	2'-6" x 1'-0"	ONE	2.5 ϕ	
Forward Well END..	OPEN RAIL					

State position of each freeing port ... After Well: END SEE SKETCH -10" ABOVE DECK

(F and A position and height above deck edge) Forward Well:—

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— SHUTTER, HINGED.

Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.

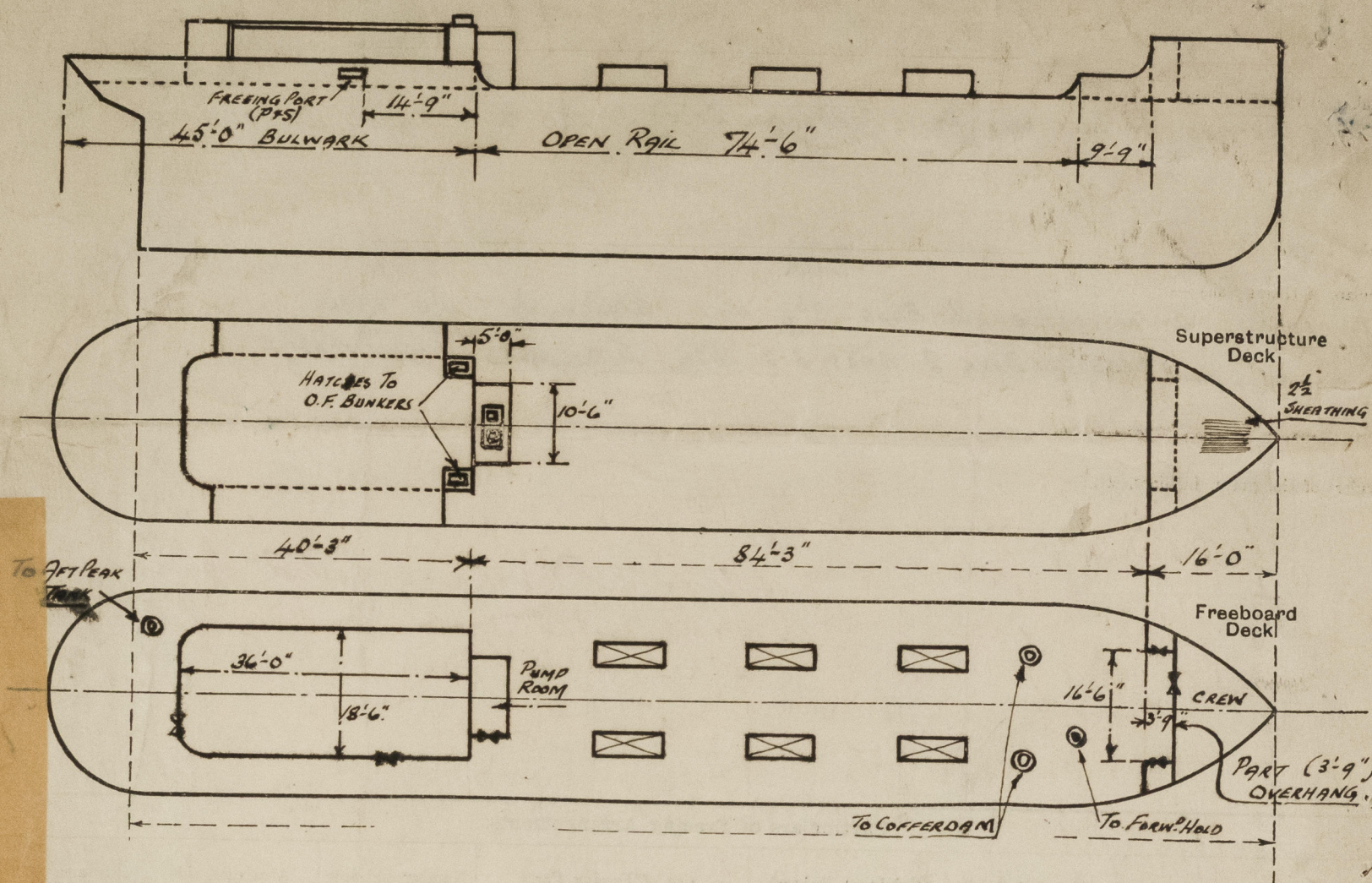
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...	✓							
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ...	✓							
Bridge, Forward Bulkhead ...	✓							
Forecastle Bulkhead ...	✓	1/4"	4 1/2" x 3" a	2'-6"	NONE	4'-8" x 2'-0"	12"	6'-5"
Trunk, Aft ...	✓							
Trunk, Forward ...	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Deck ...	1/4"	1/4"	3 1/2" x 3" a	2'-0"	NONE	4'-9" x 2'-3"	16"	6'-5"
Exposed Machinery Casings on Superstructure Decks ...	✓					4'-9" x 1'-9"	17"	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	✓							
PUMP ROOM Deckhouses on Flush Deck Ships ...	1/4"	1/4"	3 1/2" x 3" a	2'-3"	NONE	4'-3" x 2'-0"	16"	

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	✓
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead ...	✓
Bridge, Forward Bulkhead ...	✓
Forecastle Bulkhead ...	Strong hinged steel door, operated from both sides
Exposed Machinery Casings on Freeboard or Raised Quarter Deck ...	Strong hinged steel doors, secured by clip bolts, operated from outside or
Exposed Machinery Casings on Superstructure Decks ...	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	
PUMP ROOM Deckhouses on Flush Deck Ships ...	Strong hinged steel door, operated from both sides.

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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



State any special features in the construction of the ship:

Vessel examined while on slipway for bottom cleaning & painting
OMIT

Name and yard number. ABDELA & MITCHELL LTD.

or ships

THE OIL & SHIPPING CO. LTD.

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