

THE BRITISH CORPORATION REGISTER OF
SHIPPING AND AIRCRAFT
SURVEY FOR FREEBOARD

2894.

STEAMER, TANKER, SAILER S.S. GLADYS MOLLER Ex ORCHARD KNOB. WITH WITHOUT TIMBER DECK CARGO
 Nationality BRITISH. Builders' Name and No. of Ship SUN S.B. & D.D. Co. Pa.
 Port of Registry LONDON.
 Official Number 181799. Owners MOLLER LINE (U.K.) LTD.
 Gross Tonnage 10712.01.
 Date of Build 1944. Port and Date of survey SOUTHAMPTON.
 Name of Surveyor D.M. McQUEEN.
 Particulars of Classification BS TANKER Names of Sister Ships 12. TANKERS.

Type of Superstructures

Trade of Ship

GOVT. COPY ISSUED

16 JUN 1950

Service Endorsement If any

OWNERS' C.11 ISSUED

16 JUN 1950

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

TROPICAL FRESH WATER LINE above centre of disc	15 3/4"	Corresponding Freeboard	9'-2 3/4"
FRESH WATER LINE " " "	8 1/4"	" "	7'-11"
TROPICAL LINE " " "	7 1/2"	" "	8'-6 1/2"
WINTER LINE below " "	7 1/2"	" "	8'-7 1/4"
WINTER NORTH ATLANTIC LINE " " "	12 1/2"	" "	9'-10 1/4"
			10'-3 1/4"

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.		Corresponding Freeboard	
FRESH WATER " " " "		" "	
TROPICAL " " " "		" "	
WINTER " " below " "		" "	
WINTER NORTH ATLANTIC " " " "		" "	

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Chief Surveyor

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

on the

7th January 1948.

Secretary



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CONDITIONS OF ASSIGNMENT

Length on summer load line	503'-0"	Moulded Breadth	68'-0"	Moulded Depth	39.3	Depth of Keel	3 1/4"
Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth					2446	Tons	
Co-efficient of fineness for use with tables	$\frac{\Delta \times 35}{L \times B \times D \times .85}$		2446×35		$503 \times 68 \times 39.36$		748
Displacement and tons per inch immersion in salt water at summer load line					21910		67
Moulded depth	39.25			Deduction for Fresh Water	$\frac{\Delta}{40 T}$		8 1/4"
Stringer Plate	.08			Round of Beam Correction			
Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$				Ships Round of Beam			
Rise of floor (in sallsers)				Standard Round of Beam	$\frac{B \times 12}{50}$	18.50	
Depth for Freeboard (D)		39.33		Difference	$\frac{68 \times 12}{50}$	16.32	
Table Depth	$\frac{503}{18}$	33.55		Restricted to		2.18	
Depth Correction				Correction	$\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right)$	$\frac{2.18}{4} \times .6$.33
If restricted by superstructures							

SHIP'S NAME "GLADYS MOLLER" EX "ORCHARD KNOB" OFFICIAL NUMBER 181799.
Nationality and Port of Registry BRITISH. LONDON.

PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead		.44	4x4x 7/16 EP.	28"	WELDED ENDS	2'-5" x 2'-4"	18	8'-0"
R.Q.D. " Aft Pump Room.		-				2'-5" x 2'-2" 2'-5" x 2'-4"	18	8'-0"
Bridge Aft Bulkhead		.29	4x3x 5/16 O.A.	30"	" "	1'-5" x 3'-10"	18	8'-2"
" Forward "		.44	4x4x 7/16 F.P.	30"	" "	2'-5" x 2'-4"	18	8'-2"
Forecastle Bulkhead		.29	4x3x 5/16 O.A.	30"	TOPS BKT. BOTTOMS FREE	2'-4" x 60"	17 1/2	9'-11"
Trunk, Aft								
" Forward								
Exposed Machinery Casings on } Freeboard or R.Q. Decks }		NONE						
Exposed Machinery Casings on } superstructure decks }	UPPER			30"	WELDED ENDS	2'-6" x 26"		8'-10"
Machinery Casings within Super- structures not fitted with Cl. 1 closing appliances }		Does Not Apply						
Deckhouses on flush deck ships								

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	107.57	+2.63	$\left\{ \begin{array}{l} 8-0' \\ 8-9\frac{1}{2}' \end{array} \right.$	107.57.		110.20
Raised Quarter Deck						
Bridge	$\left\{ \begin{array}{l} 35-75 \\ 35-75 \end{array} \right.$	$\left\{ \begin{array}{l} F \\ A \end{array} \right. + 2.87$		35.75.		38.62
Forecastle	52.63	+ .75	$\left\{ \begin{array}{l} 9-6' \\ 13-7\frac{1}{2}'' \end{array} \right.$	52.63.		53.01
Trunk Aft						
„ Forward						
Tonnage Opening Aft						
„ „ Forward						
Totals				195.95		201.83

Standard Height of Superstructure 7'-6"

„ „ R.Q.D.

Percentage covered S/L = $\frac{39.70}{201.83}$

„ „ E/L = $\frac{201.83}{503} = .401$

„ from Table line A, B, (corrected for absence of forecastle if required)

Percentage from Table by interpolation for Bridge less than .2L if required =

Deduction =

Percentage from Table for Tankers (or Timber ships) = $\frac{-311}{-}$

Deduction = $42' \times .311 = 13.06$

STANDARD SHEER.		EXCESS AFT.		S.M.	Product	
Station	Actual Sheer	Standard Sheer	Effective Sheer			
60-2.	A.P.	16.0 +	15.5	31.50	1	31.50
26-79.	$\frac{1}{2}$ L from A.P.	2.25	+ .75	3.00	4	12.00
6-62.	$\frac{1}{2}$ L from A.P.	0.0	-	-	2	-
-	Amidships	-	-	-	4	-
13-24.	$\frac{1}{2}$ L from F.P.	0.0	-	-	2	-
53-58.	$\frac{1}{2}$ L " "	5.44	-	5.44	4	21.76
120.4.	F.P.	18.00	-	18.00	1	18.00
				18		83.26
Effective Mean Sheer				=	4.625	
Standard " "				=	30.15	
Difference					25.52	

$42 \times .511 = 13.06$

Mean Actual sheer aft
 " Standard " " = LESS THAN 1.

Mean Actual sheer forward
 " Standard " " = LESS THAN 1.

Length of enclosed superstructure forward of amidships
 Length of Ship =

Length of enclosed superstructure aft of amidships
 Length of Ship =

Sheer Correction = Difference $\times (.75 - \frac{S}{2L}) = 25.52 \times (.75 - \frac{39}{2}) = 14.18"$

If limited on account of midship superstructure =

" to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 88.19

Correction for co-efficient = $88.19 \times \frac{.748 \times .68}{1.36} = 92.52$

DRAUGHTS AND SEASONAL CORRECTIONS

	+	-		Sailer, Tanker, Steamer	Timber
Depth correction	17.34				
Deduction for superstructures		13.06		Depth to Freeboard Deck in feet	30'-4"
Sheer correction	14.18			Summer Freeboard in feet	9'-2 3/4"
Round of Beam correction		33		Moulded Draught (d)	30'-1 1/4"
Correction for thickness of deck amidships				Addition for Keel	3/4"
Other corrections, scantlings, etc.				Extreme draught	30'-2"
	31.52	13.39	+ 8.13		
Summer Freeboard in inches		=	110.65	Deduction for Tropical and addition for Winter freeboard $d/4 = 7\frac{1}{2}$ ins.	
Additional allowance for superstructures on Timber carrying ships		=		Addition for Winter North Atlantic (if required)	= 12 2 ins.
Summer Timber Freeboard in inches		=		Deduction for Tropical Timber Freeboard $d/4$	= ins.
		=		Addition for Winter " "	$\frac{d}{3}$ = ins.
		=		N.A. Timber Freeboard (if required)	= ins.



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

Poop Bulkhead	Steel pressed doors with dogs (Class 1 closing appliances).
R.Q.D. "	" " " " " (Class 1 & 2 " " ")
Bridge Aft Bulkhead	" " " " " (" 1 " " ")
" Forward "	" " " " " (" 1 & 2 " " ")
Forecastle Bulkhead	" " " " " (" 1 & 2 " " ")
Exposed Machinery Casings on } Freeboard or R.Q. decks	Above can be operated from either side
Exposed Machinery Casings on } superstructure decks	Steel covers and gratings. No dogs. 4 off P. 25.
Machinery Casings within super- structures not fitted with Cl. 1 } Closing Appliances	
Deck houses on Flush Deck ships	

PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
Forward Well		Open Rails			

State fore and aft position and height above deck to bottom of port, for each port	After Well
	Forward Well



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State whether freeing ports are fitted with shutters, bars or rails, and give particulars.

Give particulars of freeing port area, etc., on superstructure decks

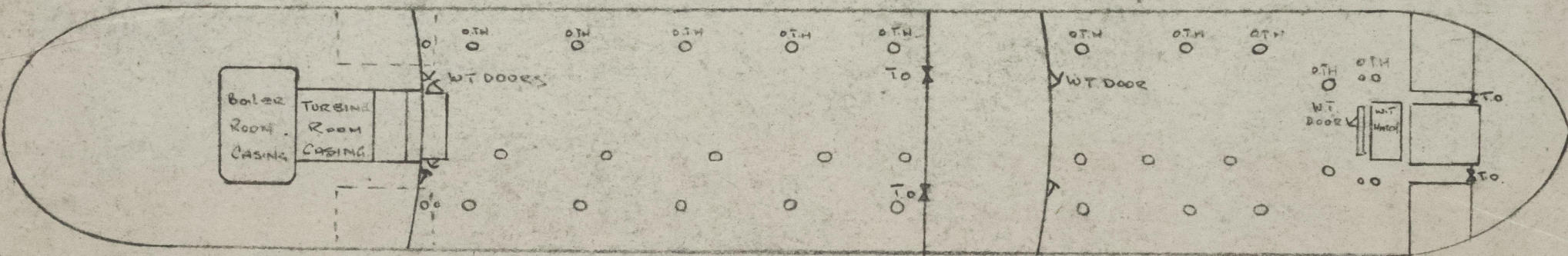
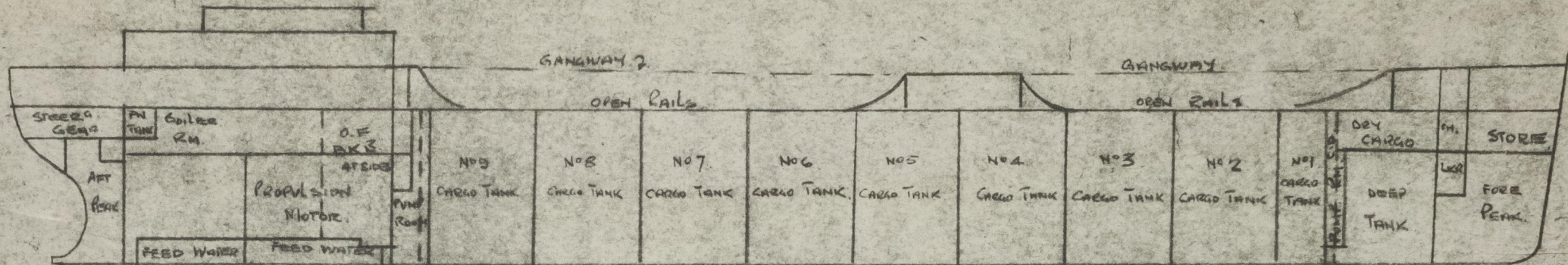
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Open Trails

0164 2/8

0184 3/8

Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	No. 1	No. 2	No. 3	2 OFF. BUNKER HATCHES	2 OFF. COFFERDAM.	CARGO HATCHES FOR CARGO HOLDS.	
	3'-0" x 3'-0"	11'-3" x 14'-9"	4'-0" x 14'-0"	28" DIA.	28" DIA.	4'-6" DIA.	
COAMINGS	Height above steel { deck	30"	27"	30"	30"	33"	
	Thickness { sides	3/8"	3/8"	3/8"	3/8"	3/8"	
	Thickness { ends						
	Stiffeners						
HATCH BEAMS	Brackets or Stays						
	Number	NONE	NONE	1 DOG & STRONGBACK	1 DOG & STRONGBACK	1 DOG & STRONGBACK	
	Spacing						
	Scantling and Sketch						
FORE AND AFTERS	Bearing Surface and thickness of carriers or sockets	ROPE GASKET	ROPE GASKET	ROPE JOINT	ROPE JOINT	ROPE JOINT	
	Number	NONE	NONE	NONE	NONE	NONE	
	Spacing						
	Unsupported lengths						
HATCH COVERS	Scantling and Sketch						
	Bearing Surface and thickness of carriers or sockets						
	Material	STEEL					
	Thickness	3/8"	3/8"				
	How Fitted	STEEL COVER	STEEL COVER	STEEL COVER	STEEL CIRCULAR COVERS.		
	Bearing Surface	ROPE GASKET	ROPE GASKET	ROPE GASKET	ROPE JOINTING.		
	Spacing of Cleats	5 DOGS.	8 DOGS	6 DOGS	1 DOG AND 1 STRONGBACK		
	Number of Tarpaulins	WATER COVER	NONE	NONE	NONE		

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

NONE

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

NONE REQUIRED.

Are lashings provided in accordance with rule requirements?

NONE REQUIRED.

Are battens and wedges efficient and in good condition?

NONE REQUIRED.



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GLADYS MOLLER.

Give full particulars of the following:—

Fiddle, Funnel and Vent Coamings, Engine Room skylight and other openings in Machinery Casing tops and their means of closing (state height of coamings, type of fiddle covers, and if these are permanently attached in their proper positions)

1 port. 1 starboard, hinged steel door 25" x 23", sill 6" permanently attached.
1 " 1 " 52" x 23" " " 6" " "
1 escape hatch 24 x 24 " " 6" " "
(locking inside).

E.R. skylight 14 x 6" plate baffle type. height 60" x 11'0" wide.

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

Poop 18" dia. chain attachment union and stove joint.

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)

Sill lights 17 to 18 inches above deck.
Steel plated doors - can be operated from either side.

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks to spaces below freeboard decks and fully enclosed superstructures enclosed by Class 1 appliances (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

Ventilators coamings provided with steel covers.
Forward pump room 2-12" vents. 11'0" coaming.
Forward well deck 2-18" dia. coaming, height 12'6".
Poop - one 18" dia. 11'6" high. Mushroom.
" " 10" " 3'0" Steel cover.
8-30" dia. vents. - height 4'6", and two 11'6" high welded to deck.

For vent. 36" dia. External motor.
2-30" x 30" Intake vent.

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

4' air pipes led up for'd. and main masts from all cargo hatches.

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

N.R. values.

21 off. aft.
6 off. midships

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

(Fitted with deadlights where required).

2-15' dia. poop bulk.
10-16" In accommodation 13 port, 13 star.

Vertical distance of sill of lowest side scuttle below top of freeboard deck at side amidships

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

Pipe guard rails on freeboard and superstructure decks.

Gangways and Lifelines

Permanent gangway fitted between poop & bridge and forecastle and bridge at bridge deck level.

Gangway, Cargo and Coaling Ports in sides of ship

None.

GLADYS MOLLER

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructure and Machinery Casings comply with rules?

Is provision made for protection of steering gear?

Is emergency steering gear provided?

Are efficient sockets and eyes for lashings provided and properly spaced?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Particulars of any Special Features in the construction of the Ship

Endorsement at first survey and at surveys for Renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition



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