

20/7/45

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Form LL. 4.C. Revised

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

"SUMPITAN"

STEAMER, TANKER, SAILED, S.M. ~~"EMPIRE SEAFARER"~~ ✓ WITH
WITHOUT TIMBER DECK CARGO

Nationality **BRITISH** ✓ Builders' Name and No. of Ship **GOOLE SB & CO LTD**
Port of Registry **GOOLE** No 443.
Official Number **180348** Owners ~~M. H. (S. S. CO LTD)~~
Gross Tonnage **522**
Date of Build **7/1945** 01/45 Port and Date of survey **GOOLE DURING CONSTRUCT.**
Name of Surveyor **E. HENDERSON**

Particulars of Classification **B.S. * (WITH FREEBOARD)** Names of Sister Ships **"SHELTS"**

Type of Superstructures **CLOSED SHELTER DECK**

Trade of Ship

RETAIN

Service Endorsement if any *and only whilst engaged on service in the East Indian Archipelago*
TEMPORARY ENDORSEMENT
THE EXTREME DRAUGHT OF THIS SHIP DURING THE VOYAGE FROM THE UNITED KINGDOM TO THE PORT OF DESTINATION MUST NOT EXCEED 8'6"
Further Report 17/11/45

ALL SEASONS

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)		
TROPICAL FRESH WATER LINE	above centre of disc	2 1/2
FRESH WATER LINE	" " "	2 1/2
TROPICAL LINE	" " "	1 1/2
WINTER LINE	below " "	1 1/2
WINTER NORTH ATLANTIC LINE	" " "	1 1/2

8' - 6 1/2"

8' - 4"

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line		
TROPICAL FRESH WATER	Timber line above L.S.	
FRESH WATER	" " " "	
TROPICAL	" " " "	
WINTER	" " below "	
WINTER NORTH ATLANTIC	" " " "	

Number of years recommended for load line certificate

Issue 20-7-45
Expiry 19-7-50

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 10th August 1945

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COMPUTATION OF FREEBOARD

Length on summer load line $140'4\frac{3}{8}"$ Moulded Breadth $27'6"$ Moulded Depth $18'6"$ Depth of Keel $\frac{1}{2}"$
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 1523 Tons @ $15'5"$ S.H.S.
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} = .7984$
 Displacement and tons per inch immersion in salt water at summer load line $7430 @ 7.90 \text{ T.P.I.}$
 Moulded depth $18'6"$ 18.000 Deduction for Fresh Water $\frac{\Delta}{40T} = 2\frac{1}{2}"$ inches
 Stringer Plate $\frac{1}{4}"$ $.021$ Round of Beam Correction
 Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ $-$ Ships Round of Beam $6" \text{ STRAIGHT BANNER EQUIV. } 7.29$ inches
 Rise of floor (in sailers) $-$ Standard Round of Beam $\frac{B \times 12}{50} = 6.48$
 Depth for Freeboard (D) 18.021 Difference $.81$
 Table Depth $4/15$ 9.358 Restricted to
 Depth Correction $4/130$ 8.663 Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = .2025 \times .8842$
 If restricted by superstructures $= 9.35 \text{ ON}$ $= .179 \text{ OFF}$

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop						
Raised Quarter Deck						
Bridge OPEN	32'6"	F	7'0"	32.5 x .5		16.25
		A				
Forecastle						
Trunk Aft						
" Forward						
Tonnage Opening Aft						
" Forward						
Totals				32.5		16.25

Standard Height of Superstructure $6.0'$
 " " R.Q.D.
 Percentage covered S/L = 23.16%
 " " E/L = 11.58%
 " from Table line A, B, (corrected for absence of forecastle if required)
 Percentage from Table by interpolation for Bridge less than .2L if required = 1.67%
 Deduction = $20.04 \times .0167 = .3347 \text{ OFF}$
 Percentage from Table for Tankers (or Timber ships) =
 Deduction =

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
$\frac{1}{3}$ L from A.P.				4	
$\frac{1}{3}$ L from A.P.				2	
Amidships				4	
$\frac{1}{3}$ L from F.P.				2	
$\frac{1}{3}$ L " "				4	
F.P.				1	
				18	

NO SHEER

Mean Actual sheer aft = $-$
 " Standard " " = $-$
 Mean Actual sheer forward = $-$
 " Standard " " = $-$
 Length of enclosed superstructure forward of amidships = $-$
 Length of Ship = $-$
 Length of enclosed superstructure aft of amidships = $-$
 Length of Ship = $-$
 Sheer Correction = Difference $\times \left(75 - \frac{S}{2L}\right) = 12.02 \times .6342$
 = 7.623 ON

Effective Mean Sheer = $-$
 Standard " " $.05L + 5$ = 12.02
 Difference = 12.02
 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 = 14.25

Correction for co-efficient = $\frac{1.478}{130} = 15.49$ DRAUGHTS AND SEASONAL CORRECTIONS

	+	-		Sailer, Tanker, Steamer	Timber
Depth correction	9.35	-		18.021	
Deduction for superstructures	-	.33			
Sheer correction	7.62	-		8.542	
Round of Beam correction	-	.18			
Correction for thickness of deck amidships	-	-			
Other corrections, scantlings, etc. LOW HATCH COAMINGS ETC.	70.55	-	6"	9.521	
	87.52	.51			
ALL SEASONS Summer Freeboard in inches	8'6 $\frac{1}{2}"$		87.01		
Additional allowance for superstructures on Timber carrying ships					
Summer Timber Freeboard in inches					

Depth to Freeboard Deck in feet 18.021
 ALL SEASONS Summer Freeboard in feet 8.542
 Moulded Draught (d) 9.479 (d1)
 Addition for Keel $\frac{1}{2}"$ $.042$
 Extreme draught $9'6\frac{1}{4}"$ 9.521
 Deduction for Tropical and addition for Winter freeboard $d/4 = -$ ins.
 Addition for Winter North Atlantic (if required) $-$ ins.
 Deduction for Tropical Timber Freeboard $\frac{d}{d} = -$ ins.
 Addition for Winter " " $\frac{d}{3} = -$ ins.
 " " N.A. Timber Freeboard (if required) $-$ ins.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD CONDITIONS OF ASSIGNMENT

SHIPS NAME "EMPIRE SEAFARER"
Nationality and Port of Registry BRITISH. GOOLE

OFFICIAL NUMBER 180378

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								
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead								
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks	.28	.25	4" x 5/8"	1'-9"	GUSSET WELDED AT TOP & BOTTOM	1 @ 19" x 19" 1 @ 3'-0" x 2'-7"	1'-6"	7'-6" 7'-3"
Exposed Machinery Casings on superstructure decks								
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances			4 x 5/16			1 @ 19" x 19"		
Deckhouses on flush deck ships	.28	.25	3 x 5/16	1'-9"	GUSSET WELDED AT TOP	1 @ 3'-5" x 2'-2"	1'-6"	7'-3"

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

Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	
Exposed Machinery Casings on Freeboard or R.Q. decks	STEEL DOORS OPERATED BOTH SIDES
Exposed Machinery Casings on superstructure decks	
Machinery Casings within superstructures 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					

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

} After Well

} Forward Well

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

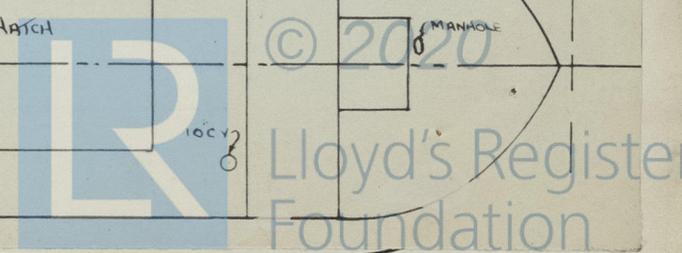
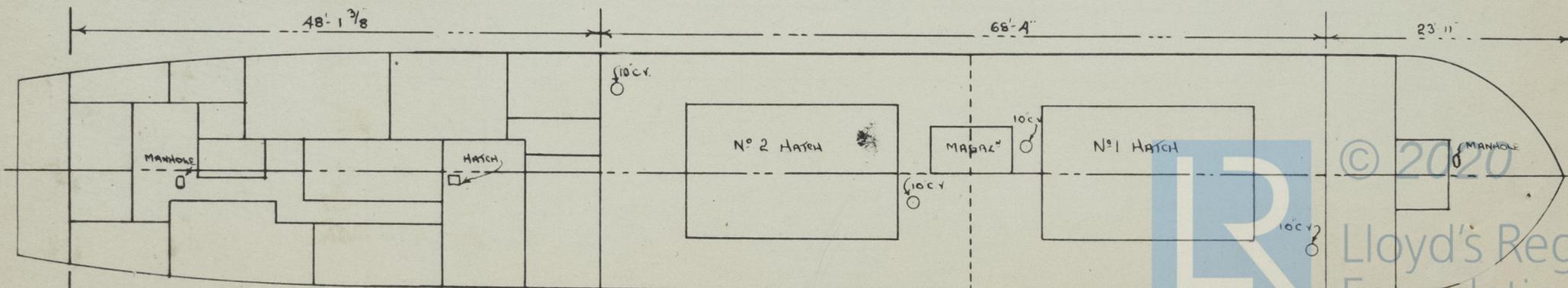
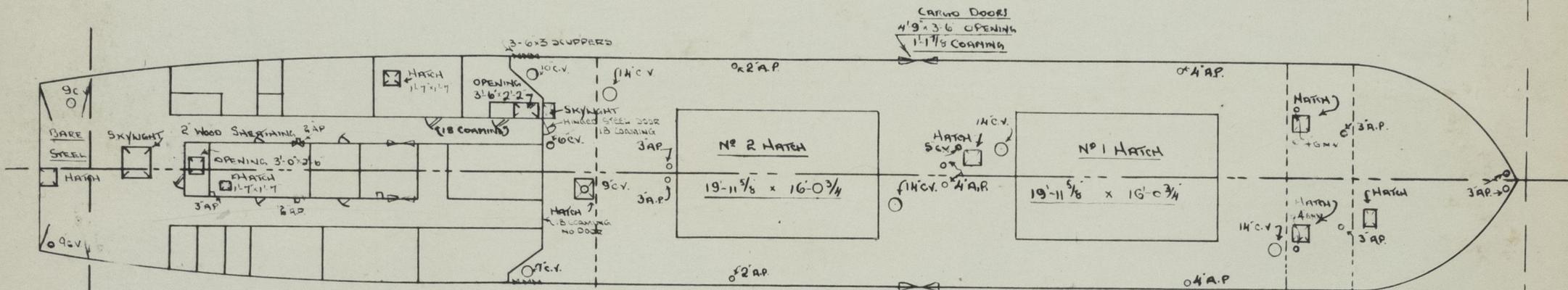
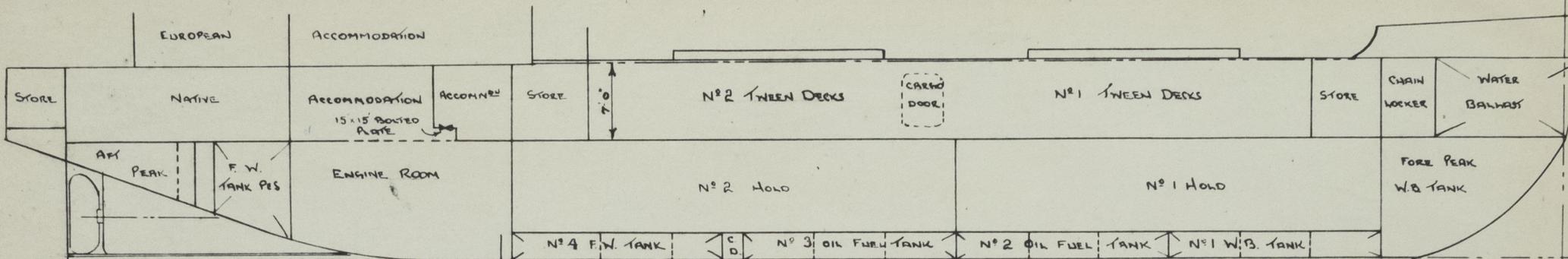
Give particulars of freeing port area, etc., on superstructure decks



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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	No 1 HATCH	No 2 HATCH	FORE DECK HATCH	HATCH TO FORWARD STORE PORT	HATCH TO FORWARD STORE STARBOARD	HATCH TO STORE AT 26 FRAME	HATCH TO MAGAZINE	HATCH TO AFTER STORE
Dimensions of Hatchway	20'-0" x 16'-0" ^{3/4}	20'-0" x 16'-0" ^{3/4}	2'-3" x 1'-9"	2'-7" x 2'-2" ^{1/2}	2'-7" x 2'-2" ^{1/2}	2'-6" x 2'-6"	2'-1" x 2'-10"	2'-0" x 1'-10"
COAMINGS	Height above steel deck	10" x 3 1/2" BA	2'-0"	2'-0"	2'-0"	1'-6"	1'-6"	1'-6"
	Thickness sides ends	1/2"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	Stiffeners	-	-	-	-	-	-	-
	Brackets or Stays	-	-	-	-	-	-	-
HATCH BEAMS	Number	2						
	Spacing	6'-8"						
	Scantling and Sketch	10" x 6" x 40 lbs R.S.J.	10" x 6" x 40 lbs R.S.J.					
	Bearing Surface and thickness of carriers or sockets							
FORE AND AFTERS	Number							
	Spacing							
	Unsupported lengths							
	Scantling and Sketch							
Bearing Surface and thickness of carriers or sockets								
HATCH COVERS	Material	WOOD	WOOD	STEEL	STEEL	STEEL	STEEL	STEEL
	Thickness	2 1/8"	2 1/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	How Fitted	F&A	F&A	HINGED WITH	HINGED WITH	HINGED WITH	HINGED WITH	HINGED WITH
	Bearing Surface	2 1/2"	2 1/2"	HEMP PACKING	HEMP PACKING	HEMP PACKING	HEMP PACKING	HEMP PACKING
Spacing of Cleats	1'-11"	1'-11"	& SECURED BY	& SECURED BY	& SECURED BY	& SECURED BY	& SECURED BY	
Number of Tarpaulins	1	2	BUTTERFLY BOLTS	BUTTERFLY BOLTS	BUTTERFLY BOLTS	BUTTERFLY BOLTS	BUTTERFLY BOLTS	BUTTERFLY BOLTS

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

YES

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

NO

Are lashings provided in accordance with rule requirements?

YES

Are battens and wedges efficient and in good condition?

YES

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

PORT	1-4"	BUNN METAL	BALANCED	CHECK	VALVE
"	1-1/2"	"	"	"	"
"	1-4"	"	"	"	"
"	1-3/4"	"	"	"	"
STAR	1-4"	"	"	"	"
"	1-5"	"	"	"	"

SCUPPERS IN ACCOMMODATION DRAINED INTO ENGINE ROOM BILGES

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

10" DIA CLEAR GLASS SIDELIGHTS IN POOP SIDES WITH PERMANENT DEADLIGHTS

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)

3" x 2 1/2"	STANCHIONS	FITTED	AROUND	SIDES	AND	AFTER	END	OF	POOP	DECK	(RAILS	13" APART)
"	"	"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"	"	"

Gangways and Lifelines

1/2"	STEEL	WIRE	LIFELINE	FROM	POOP	TO	FORECASTLE	ON	STARBOARD	SIDE	ONLY
1/2"	"	"	"	"	"	"	"	"	"	"	"

Gangway, Cargo and Coaling Ports in sides of ship

OPENING IN SHEEL PORT & STARBOARD TO TWEEN DECKS 4'-9" X 3'-6" BETWEEN FRAMES 30 & 31



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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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