

18/4/44

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OWNERS ✓

2159

Form LL. 4.C. Revised

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

SHIP, TANKER, ^{S.M.} ~~SAILED~~ ~~CHARTER~~ ~~GO~~ **BTIX** ~~NTI~~ ~~WITHOUT~~ ^{WITH} ~~TIMBER DECK CARGO~~

Nationality ~~BRITISH~~ **SWEDISH** Builders' Name and No. of Ship **MESSRS GOOLE SB. & R. CO LTD**
 Port of Registry ~~GOOLE~~ **KUNGSBACKA.** **GOOLE N° A1A**
 Official Number **180111** Owners **MINISTRY OF WAR TRANSPORT.**
 Gross Tonnage **403.44** (MAG.) **COASTAL TANKERS LTD.**
 Date of Build **A/1944** Port and Date of survey **GOOLE DURING CONSTRUCTION.**
 Name of Surveyor **E. HENDERSON.**

Particulars of Classification **B.S * { BULK OIL CARRIER } COASTING SERVICE** Names of Sister Ships **CHART 22, 23, 24, 25.**

Type of Superstructures **POOP, FORECASTLE.**

Trade of Ship

Service Endorsement if any

*And only whilst engaged in service in
Baltic and European Coasting Service*

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	NOT ASSIGNED 2 1/2"			0-9 1/2 305
FRESH WATER LINE	" " " 2 1/2"	63	" "	0-9 1/2 242
TROPICAL LINE	" " " NOT ASSIGNED 0		" "	1-0
WINTER LINE	below " " 2 1/2"	63	" "	1-2 1/2 368
WINTER NORTH ATLANTIC LINE	" " " NOT ASSIGNED 4 1/2"		" "	1-4 1/2

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

ASSIGNMENT NOTES & CERTS.

DATE of issue 18/4/44
 DATE of expiry 19/4/49

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 3RD MAY 1944



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COMPUTATION OF FREEBOARD

Length on summer load line 111'-0" Moulded Breadth 27'-0" Moulded Depth 11'-00" Depth of Keel 1/2"

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 725 Tons @ 9'-4 3/10"

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

Displacement and tons per inch immersion in salt water at summer load line 798 Tons 8.03 Tons | " @ 10 Ft.

Moulded depth 11.00 Deduction for Fresh Water $\frac{\Delta}{40 T} =$ inches

Stringer Plate 3/8" .031. Round of Beam Correction

Sheathing on exposed deck T $(\frac{L-S}{L})$ - Ships Round of Beam Nil. 0.00. inches

Rise of floor (in sailers) - Standard Round of Beam $\frac{B \times 12}{50} = 6.48.$

Depth for Freeboard (D) 11.031. Difference 6.48.

Table Depth 4/15. 9.4. Restricted to

Depth Correction 4/130. 1.631 Correction $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = 1.62.2262.$

If restricted by superstructures 1.76901. = 366501.

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	27'-6 3/4"	-	7' 0"	41.26	-	41.26
Raised Quarter Deck						
Bridge		F				
		A				
Forecastle	13'-8 1/4"	1'-10"	8'-0"	15.63.		14.82.
Trunk Aft	21'-9"	-	7'-0"	27.00.	18/27.	14.50.
" Forward	41'-2"		3'-4"	27.00.	18/27.33.	15.25.
Funnel Opening Aft	18'-10"		3'-4"	27.00.	14/27.33.	5.70.
" " Forward					27/27.	
Totals	14.50 27.44 10.26 52.20			56.89.		91.53.

Standard Height of Superstructure 6'-0"

" " R.Q.D.

Percentage covered S/L = 40.34%

" " E/L = 64.93%

" 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 = 57.423

Percentage from Table for Tankers (or Timber ships) =

Deduction = 20.1 + 57.42 = 11.54 OFF.

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.				1	
1/8 L from A.P.				4	
1/8 L from A.P.				2	
Amidships				4	
1/8 L from F.P.				2	
1/8 L " "				4	
F.P.				1	
				18	

Mean Actual sheer aft = LESS THAN 1.

" Standard " "

Mean Actual sheer forward = LESS THAN 1.

" Standard " "

Length of enclosed superstructure forward of amidships =

Length of Ship

Length of enclosed superstructure aft of amidships =

Length of Ship

Sheer Correction = Difference $\times (75 - \frac{S}{2L}) = 12.05 \times 54.83 = 660801.$

Effective Mean Sheer = 0.00

Standard " " .05L + 5 = 12.05

Difference 12.05.

If limited on account of midship superstructure =

" to maximum allowance of 1 1/2 ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 14.33

Correction for co-efficient = 1393/136 = 14.68. DRAUGHTS AND SEASONAL CORRECTIONS.

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	1.77	-		
Deduction for superstructures	-	11.54.		
Sheer correction	6.61.	-		
Round of Beam correction	.37.	-		
Correction for thickness of deck amidships	-	-		
Other corrections, scantlings, etc.	-	-		
	8.75.	11.54.	-2.79.	

Summer Freeboard in Inches 12" = 11.89.

Additional allowance for superstructures on

Timber carrying ships =

Summer Timber Freeboard in inches =

Depth to Freeboard Deck in feet 11.031.

Summer Freeboard in feet 1.000

Moulded Draught (d) 10'-0 3/4" 10.031. (d1)

Addition for Keel .042.

Extreme draught 10'-0 3/4" 10.073.

Deduction for Tropical and addition for Winter freeboard d/4 = 2.5 ins.

Addition for Winter North Atlantic (if required) -4.5. ins.

Deduction for Tropical Timber Freeboard $\frac{d1}{d}$ = ins.

Addition for Winter " " $\frac{d1}{d}$ = ins.

" " N.A. Timber Freeboard (if required) = ins.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD CONDITIONS OF ASSIGNMENT

SHIPS NAME "GHAAT 26"

OFFICIAL NUMBER 180111.

Nationality and Port of Registry BRITISH, GOOLE

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		5/16 1/4	5 x 5/11"	2'-3"	WELDED	2 @ 10" Dia.	5'-1"	7'-0"
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead		5/16	3" x 3" x 1/4"	2'-0" - 2'-6"	WELDED	2 @ 11" x 1'-10"	1'-3"	8'-0"
Trunk, Aft	5/16	1/4"	4" x 5/16 3/2 x 5/16	1'-8" 2'-10"	"	-	-	7'-0"
" Forward		5/16	4" x 5/16	1'-8"	"	-	-	3'-4"
Exposed Machinery Casings on } Freeboard or R.Q. Decks }								
Exposed Machinery Casings on } superstructure decks }	5/16	1/4"	4" x 5/16	1'-9"	WELDED AT TOP BUT. AT BOTTOM	-	-	8'-3" - 8'-5"
Machinery Casings within Super- structures not fitted with Cl. 1 closing appliances }								
Deckhouses on flush deck ships								

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

Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	Steel doors operated both sides.
Exposed Machinery Casings on } Freeboard or R.Q. decks }	
Exposed Machinery Casings on } superstructure decks }	
Machinery Casings within super- structures not fitted with Cl. 1 Closing Appliances }	
Deck houses on Flush Deck ships	

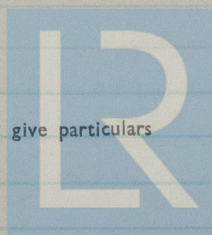
PARTICULARS OF FREEING ARRANGEMENTS

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

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

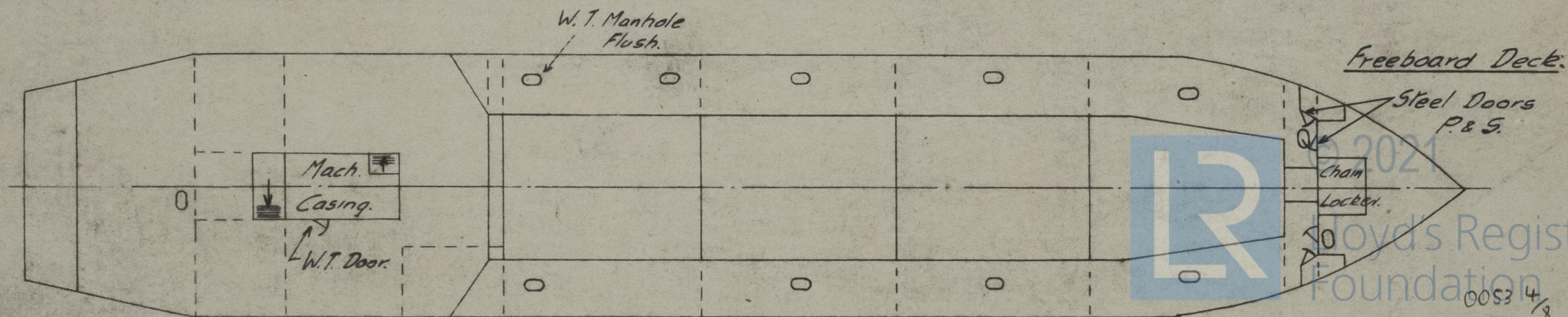
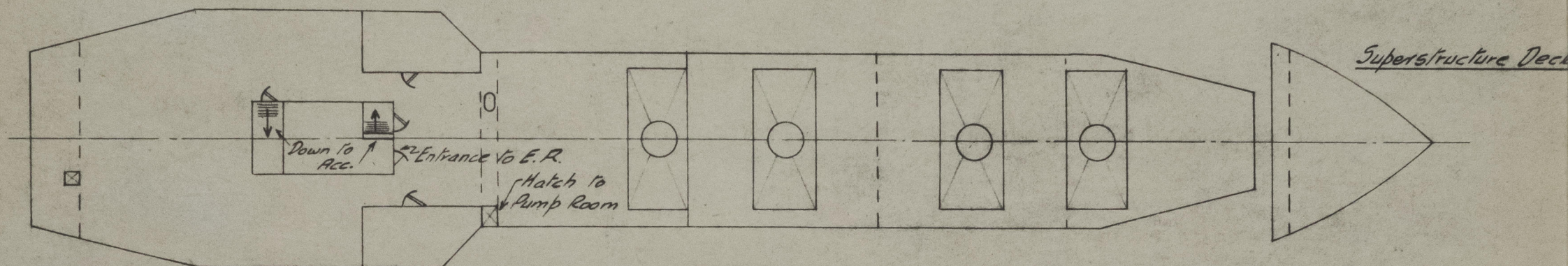
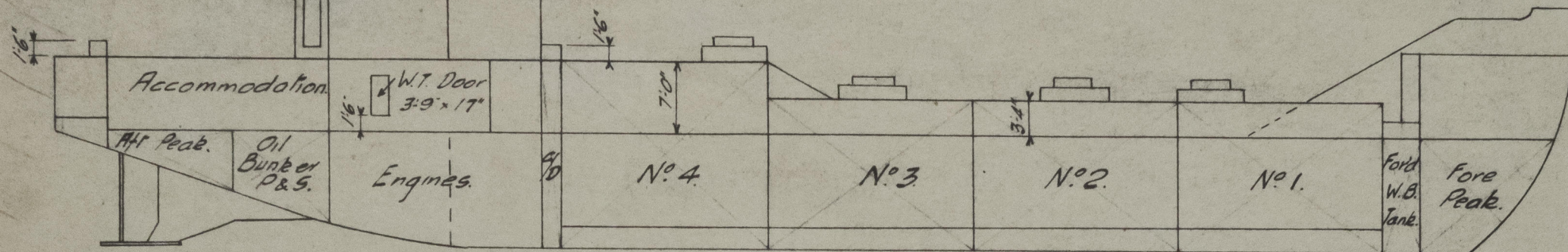


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Exhaust Gas
Funnel.



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward	UPPER DECK & TRUNK TOP			POOP DECK & TRUNK TOP			HATCH TO AFT STORE
	CARGO HATCHES Nos. 1, 2, 3.	OIL TIGHT HATCHES Nos. 1, 2, 3.	SMALL O.T. HATCH Nos. 1, 2, 3.	CARGO HATCH No. 4.	OIL TIGHT HATCH No. 4.	SMALL O.T. HATCH No. 4.	
Dimensions of Hatchway	15'-0" x 6'-7 3/4" 4'-10" ABOVE UPPER DECK	15'-0" x 6'-7 3/4" 4'-10" ABOVE UPPER DECK	4'-0" Dia. 5'-8" ABOVE UPPER Dk.	15'-0" x 6'-7 3/4" 8'-6" ABOVE UPPER Dk.	15'-0" x 6'-7 3/4" 8'-0" ABOVE UPPER Dk.	4'-0" Dia. 8'-4" ABOVE UPPER Dk.	2'-2 1/2" x 1'-9 1/2" 8'-6" ABOVE UPPER Dk.
COAMINGS	1'-6"	1'-6"	10" COAMING	1'-6" COAMING.	1'-6"	10" COAMING.	1'-6"
Height } steel { deck above } wood {							
Thickness { sides ends	5/16" x 5/16"	5/16" 5/16"	3/4"	5/16" 5/16"	5/16" 5/16"	5/16"	5/16" 5/16"
Stiffeners	6" x 3" x 5/16" O.A.	6" x 3" x 5/16" O.A.		6" x 3" x 5/16" O.A.	6" x 3" x 5/16" O.A.		
Brackets or Stays	4" x 5/16"	4" x 5/16"		4" x 5/16"	4" x 5/16"		
HATCH BEAMS							
Number							
Spacing							
Scantling and Sketch							
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	STEEL	STEEL	WOOD	STEEL	STEEL	WOOD
Thickness	2 5/8"	1/4" WITH 4" x 5/16" STIFFENERS AT 2'-6" CRS.	5/8"	2 5/8"	1/4" WITH 4" x 5/16" STIFFENERS AT 2'-6" CRS.	3/8"	2 5/8"
How Fitted	F. & A.	WITH HEMP PACKING	WITH HEMP PACKING	F. & A.	WITH HEMP PACKING.	WITH HEMP PACKING.	F. & A.
Bearing Surface	24"	COVER SECURED BY BOLTS AT 12" CRS.	COVER SECURED BY 8 DOGS.	24"	COVER SECURED BY BOLTS AT 12" CRS.	COVER SECURED BY 8 DOGS.	24"
Spacing of Cleats	2			2			
Number of Tarpaulins							

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

YES
YES. 2 1/2" HEMP

Are lashings provided in accordance with rule requirements?

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

NONE FITTED
YES.

Are battens and wedges efficient and in good condition?

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Fiddley, 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 fiddley covers, and if these are 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)

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)

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)

Upper Deck

- Cargo carrier blank flanges fitted when ship oil carrier
All G.N. & cable vents fitted with wood plugs & canvas covers

1-3" G.N. airpipe on $\pm 2-0'$ above forecastle deck welded to deck. To fore peak.
 1-3" " " P.S. 2'-3' " upper " " " " " fore- cofferdam.
 1-5" " " 26" " " " " " " Nos. 1, 2, 3, 4, tank side comp.
 1-5" " " port 12" " poop " " " " " aft cofferdam.
 1-3" " " star. 18' " " " " " " " aft peak.
 1-5" " " port 26" " upper " " " " " fitted with gauge. To aft cofferdam.
 All airpipes fitted with wood plugs & canvas covers.

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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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