

VERY URGENT.

Index No. 39221
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

12 SEP 1947

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~)

Glasgow Rev 72054

Ship's Name L.C.T. N° 835.	Official Number	Nationality and Port of Registry ETHIOPIAN (SUBJECT TO CONFIRMATION) NOT KNOWN.	Gross Tonnage	Date of Build Not known.	Port of Survey GRANGEMOUTH.
Moulded Dimensions: Length 171.0 feet ✓ Breadth 38.0 feet ✓ Depth 7.5 feet to Upper Deck ✓ [Centre of madder stock to fore perp.]					Date of Survey 15th April 1947 and subsequent dates.
Moulded displacement at moulded draught = 80 per cent. of moulded depth Not available 960 ✓ tons estimated					Surveyor's Signature James M. Widders [CONTEMPLATED]
Coefficient of fineness for use with Tables .811 ✓					Particulars of Classification A - with freeboard corresponding to a summer moulded draft of 5'-0" for service in the Red Sea and Coasting Service within limits to be defined.

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	7.5 feet ✓	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	38.0 feet ✓
Stringer plate	0.25 inches ✓			Standard Round of Beam = $\frac{B \times 12}{50}$	9.12 ✓
Sheathing on exposed deck	None	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	None
$T \left(\frac{L-S}{L} \right) =$		$(11.40 - 7.52) 1.315 = -5.10$ ✓ 3.82		Difference	-9.12 ✓
Depth for Freeboard (D) =	7.52 ✓	If restricted by superstructures	YES NIL ✓	Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{9.12}{4} \times \frac{5991}{+1.37} =$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed <i>See sketch over</i>	47.50 ✓	47.50	4.75 ✓	4.75/6.00	37.61 ✓	Standard Height of Superstructure 6.0' ✓
" overhang						" " R.Q.D. ✓
R.Q.D. enclosed						Deduction for complete superstructure 23.1" ✓
" overhang						Percentage covered $\frac{S}{L} =$ 40.09 ✓
Bridge enclosed						" " $\frac{S_1}{L} =$
" overhang aft						" " $\frac{E}{L} =$ 30.71 ✓
" overhang forward						Percentage from Table, Line A. 15.60 ✓
F'cle enclosed <i>See sketch over</i>	21.05 ✓	21.05	4.25 ✓	4.25/6.00	14.91 ✓	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B. ✓
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required) ✓
Tonnage opening aft						Deduction = 23.1 × .156 = -3.60" ✓
" forward						
Total	68.55 ✓	68.55 ✓			52.52 ✓	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	27.10	1		27.10	0	0	1		-	Mean actual sheer aft Mean standard sheer aft = } deficient
$\frac{1}{8}$ L from A.P.	12.06	4		48.24	0	0	4		-	
$\frac{2}{8}$ L	2.98	2		5.96	0	0	2		-	Mean actual sheer forward Mean standard sheer forward =
Amidships	-	4		-	-	-	4		-	
$\frac{2}{8}$ L from F.P.	5.96	2		11.92	0	0	2		-	Length of enclosed superstructure forward of amidships = } deficient sheer.
$\frac{1}{8}$ L	24.12	4		96.48	0	0	4		-	
F.P.	54.20	1		54.20	21 ✓	21 ✓	1		21 ✓	" " aft of " =
Total				243.90					21 ✓	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{222.9}{18} (.75 - .2004) = +6.81$ ✓
If limited on account of midship superstructure. 5496 ✓ If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	18.45 ✓
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.811 + .68}{1.36} = \frac{1.491}{1.36} =$	20.23 ✓
Depth to Freeboard Deck = 7.52 ✓	$\Delta =$	Depth Correction	
Summer freeboard = 2.52 ✓	Tons per inch immersion at summer load water line	Deduction for superstructures	3.60
Moulded draught (d) = 5.00 ✓	T =	Sheer correction	6.81
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 1.25 = $1\frac{1}{4}$ ✓	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction	1.37
Addition for Winter North Atlantic Freeboard (if required) = not assigned	$\frac{d}{4} = 1\frac{1}{4}$ ✓	Correction for Thickness of Deck amidships	-
	No hydrostatic information available.	Other corrections, scantlings, etc. corresponding to a summer moulded draught of 5'-0"	5.44
		Summer Freeboard = 30.25 ✓	

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

Tropical Fresh Water Line above Centre of Disc	... 2 1/2" ...	Tropical Fresh Water Freeboard	2'- 6 1/4" ✓
Fresh Water Line	... 1 1/4" ...	Fresh Water	2'- 3 3/4" ✓
Tropical Line	... 1 1/4" ...	Tropical	2'- 5" ✓
Winter Line	below	Winter	not assigned
Winter North Atlantic Line	below	Winter North Atlantic	not assigned

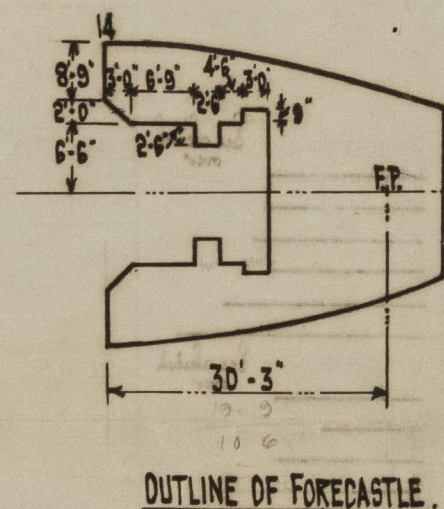
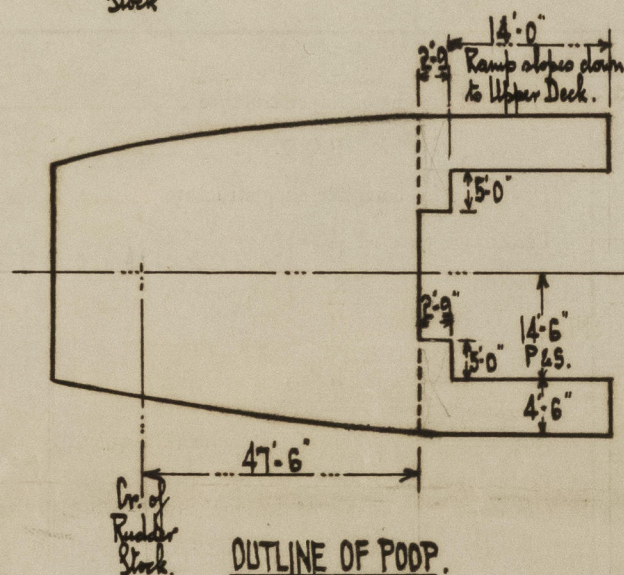
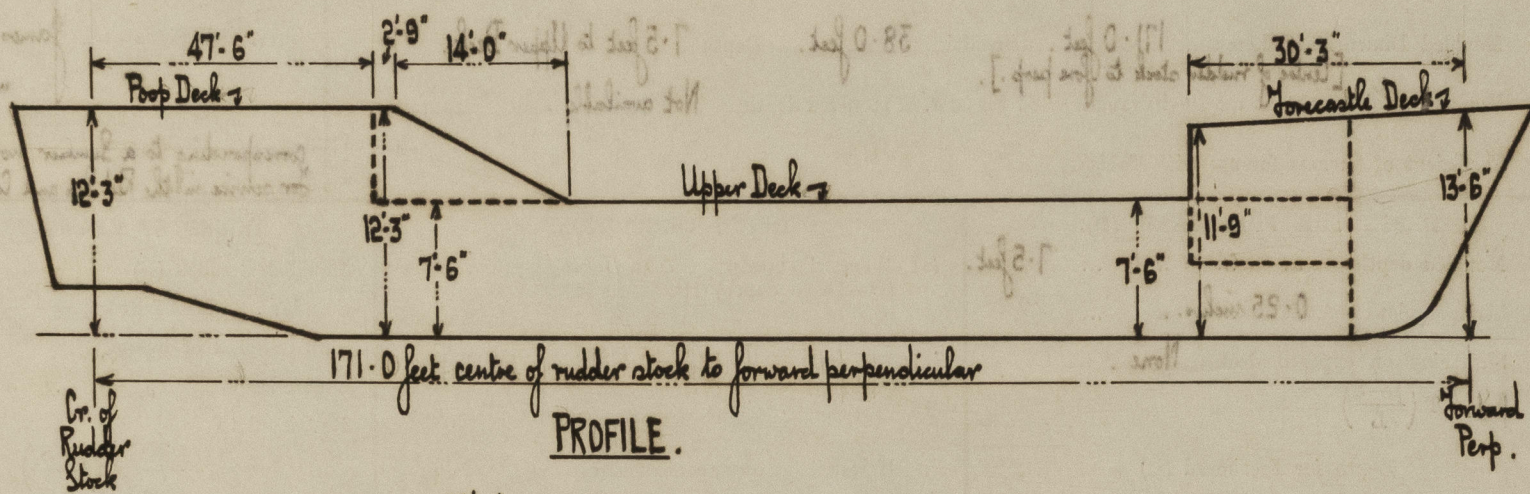
Tropical Fresh Water Line above Centre of Disc	... 2 1/2" ...	Tropical Fresh Water Freeboard	2'- 6 1/4" ✓
Fresh Water Line	... 1 1/4" ...	Fresh Water	2'- 3 3/4" ✓
Tropical Line	... 1 1/4" ...	Tropical	2'- 5" ✓
Winter Line	below	Winter	not assigned
Winter North Atlantic Line	below	Winter North Atlantic	not assigned

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A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Freeboard:- Sidehouses $2 \times 3 \times 5.08 = 30.48$ ✓ $\frac{305.98}{29.00} = 10.55$ ✓
 $2 \times 13.75 \times 8.00 = 220.00$ ✓
 $2 \times 3 \times 9.25 = 55.50$ ✓
 $\frac{305.98}{29.00} = 10.55$ ✓
 foile at br 10.50 ✓
 Equiv 21.05 ✓



It is understood that Freeboard Request Form 9 was sent direct to the London Office, see London letter dated 17th April 1947.

The following plans, (3 in N°), are attached herewith for reference, viz:- General Arrangement; General Steelwork Plan and Profile and Decks, please return same when the necessary information has been derived therefrom.

Attention is drawn to London letter dated 1st April 1947. The Owners are desirous of obtaining a draft of 5'-0" and have therefore extended the hatch side girders to form a continuous girder as recommended in the aforementioned letter.

Trade of ship Red Sea and Coasting Service within limits to be defined.
 Names of sister ships -
 Builder's name and yard number Not known.
 Owners SABEAN UTILITY CORPORATION LD., ADDIS ABABA [London Representative:- J.C. Campbell, Esq., Clarendon House, 11/12, Clifford Street, New Bond Street, London, W.1.]

Fee £

17/1/47



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