

Preliminary.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR ~~STEAM~~ ^{STEAM} ~~SHIP~~ ^{TANKER}.)

Index No. 36527
(For London Office only).

Ship's Name Furness Shipbuilding Co., Ltd.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
No 341-42-43					
Moulded Dimensions: Length 476.96' Breadth 68.00' Depth 36.0' <i>to centre of keel</i>					Date of Survey 17.2.41
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature
Coefficient of fineness for use with Tables .76					Particulars of Classification Tanker

Depth for Freeboard (D). Moulded depth ... 36.00' Stringer plate82" Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ Depth for Freeboard (D) = 36.07'	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = (36.07 - 31.80) \times 3 = +12.81"$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ ✓ If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 68.00 Standard Round of Beam = $\frac{B \times 12}{50} = 16.32$ Ship's Round of Beam = 17.00 Difference Excess .68 Restricted to Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S}{L} \right) = \frac{.68}{4} \times 68.99 = -12"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	113.21	113.21	7.5'	✓	113.21	Standard Height of Superstructure 7.5'
„ overhang ...						„ „ R.Q.D. ✓
R.Q.D. enclosed ...						Deduction for complete superstructure 42.00
„ overhang ...						Percentage covered $\frac{S}{L} = 31.04$
Bridge enclosed ...						„ $\frac{S_i}{L} = 31.01$
„ overhang aft ...						„ $\frac{E}{L} = 31.01$
„ overhang forward ...						Percentage from Table, Line A. TANKER 22.01
Fore enclosed ...	34.54	34.54	7.5'	✓	34.54	(corrected for absence of forecastle (if required)) ✓
„ overhang29	.15			.15	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 = 42.0 x 22.01 = -9.24
„ forward ...						
Total ...	148.04	147.90			147.90	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	57.70	1		57.70	45.75	45.75	1		45.75	Mean actual sheer aft = Deficient
1/4 L from A.P. ...	25.675	4		102.70	20.75	20.75	4		83.00	Mean actual sheer forward = Deficient
1/2 L „ ...	6.35	2		12.70	5.63	5.63	2		11.26	Mean standard sheer forward
Amidships ...		4		-	-	-	4		-	Length of enclosed superstructure forward of amidships =
3/4 L from F.P. ...	12.695	2		25.39	6.88	6.88	2		13.76	„ aft of „ = } Tanker
1/4 L „ ...	51.35	4		205.40	26.75	26.75	4		107.00	
F.P. ...	115.39	1		115.39	61.50	61.50	1		61.50	
Total ...				519.28					322.27	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{197.01(75-155)}{18} = -59.48$
 If limited on account of midship superstructure. **+6.51** If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 36.07' Summer freeboard = 8.06' Moulded draught (d) = 28.01' Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 7.00 = 7" Addition for Winter North Atlantic Freeboard (if required) = 7.00 + 4.77 = 11.77 = 11 3/4"	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 19530$ Tons per inch immersion at summer load water line $T = 65.2$ Deduction = $\frac{\Delta}{40T}$ inches = 7.49 = 7 1/2"	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient 76 + 68 = 1.44 / 1.36 Depth Correction ... 12.81 Deduction for superstructures ... 9.24 Sheer correction ... 6.51 Round of Beam correction12 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... 19.32 9.36 + 9.96 = 38.64 Summer Freeboard = 96.72
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ...	14 1/2"
Fresh Water Line „ „ ...	7 1/2"
Tropical Line „ „ ...	7"
Winter Line below „ „ ...	7"
Winter North Atlantic Line „ „ ...	11 3/4"

Tropical Fresh Water Freeboard ...	8' 0 3/4"
Fresh Water „ „ ...	6' 10 1/4"
Tropical „ „ ...	7' 5 1/4"
Winter „ „ ...	7' 5 3/4"
Winter North Atlantic „ „ ...	9' 0 1/2"

A new form should be prepared if any alterations that affect the keelboard 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.

Pooh

114-8
108-6 1/2

108-6 1/2

6-1 1/2 x 2/3

4-1 1/2
112-7 1/2
7

A.P. to centre of rudder stock

Equivalent end-on length 113-2 1/2 = 113.21

Forecastle

34'-6 1/2"

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation