

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 43286
(For London Office only.)

3

Ship's Name KYOKUTO MARU.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 539.50 Breadth 65.0 Depth 37.07					Date of Survey 22/11/51
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Surveyor's Signature
Coefficient of fineness for use with Tables 74 assumed					Particulars of Classification RE-classification Carrying Petroleum in Bulk (Contaminated)

DEPTH FOR FREEBOARD (D). Moulded depth ... 37.07 Stringer plate ... 79 ... 07 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 37.14	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = $(37.14 - 35.97) 3 = + 3.51$ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 65.00 Standard Round of Beam = $\frac{B \times 12}{50} = 15.60$ Ship's Round of Beam = 16.50 Difference + 0.90 Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.90}{4} \times .5468 = -.12$
--	--	--

DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure 7.5
Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	" " R.Q.D. ✓
Poop enclosed ... 160.50	160.5	7.75	✓	160.50	Deduction for complete superstructure 42.00
" overhang ...					Percentage covered $\frac{S}{L} =$
R.Q.D. enclosed ...					" " $\frac{S_1}{L} =$ 45.32 ✓
" overhang ...					" " $\frac{E}{L} =$
Bridge enclosed 38.84	38.84	8.00	✓	38.84	Percentage from Table, Line A. TANKER 36.32 ✓
" overhang aft ...					(corrected for absence of forecastle (if required))
" overhang forward ...					Percentage from Table, Line B.
F'cle enclosed 45.16	45.16	7.50		45.16	(corrected for absence of forecastle (if required))
" overhang ...					Interpolation for bridge less than .2L (if required)
Trunk aft ...					Deduction = 42.00 x .3632 = -15.25 ✓
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total 244.50	244.50			244.50	

SHEER CORRECTION.								Mean actual sheer aft =
Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product	Mean standard sheer aft =
A.P. ... 63.95	✓	1		45.00	45.00	1	45.00	
1/4 L from A.P. ...		4		9.00	9.00	4	36.00	
3/4 L " ...		2		✓	✓	2	✓	Mean actual sheer forward =
Amidships ...		4		✓	✓	4	✓	Mean standard sheer forward =
3/4 L from F.P. ...		2		✓	✓	2	✓	
1/4 L " ...		4		20.00	20.00	4	80.00	Length of enclosed superstructure forward of amidships =
F.P. ... 127.90	✓	1		108.00	108.00	1	108.00	" " aft of " =
Total ...			575.55				269.00	
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{306.55}{18} \left(.75 - .2266 \right) = +8.91$								
If limited on account of midship superstructure.								

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 37.14 Summer freeboard = 8.14 Moulded draught (d) = 29.00 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line T = Deduction = $\frac{\Delta}{40 T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient Depth Correction ... Deduction for superstructures ... Sheer correction ... Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = 97.70 ✓	96.39 ✓ 100.65 ✓ + - 3.51 ✓ 15.25 ✓ 8.91 ✓ 0.12 ✓ 12.42 15.37 - 2.95 ✓ Summer Freeboard = 97.70 ✓
---	---	---	---

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-			
Tropical Fresh Water Line above Centre of Disc	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	" "	Fresh Water	" "
Tropical Line	" "	Tropical	" "
Winter Line below	" "	Winter	" "
Winter North Atlantic Line	" "	Winter North Atlantic	" "