Rpt. C.11 (Comp.).

Kyung Nam 46609

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

24 DEC 1956

Index No. _46637_
(For London Office only.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
"SILVER DRAGON"		Korean Inchon	1049	1957

Port of Survey Hong Kong.

Date of Survey 17th December, 1956.

Surveyor's Signature James A. Anderson.

Particulars of Classification +100A1

Moulded Dimensions: Length 189'-3" *190'-0" to d of Rudder Stock.* Breadth 33'-0" Depth 17'-0"
on 13'-6" draught. Stem rake 5" per foot.

Moulded displacement at moulded draught = 85 per cent. of moulded depth 2070 tons

Coefficient of fineness for use with Tables .800

DEPTH FOR FREEBOARD (D).

Moulded depth 17.00

Stringer plate ... ... .03

Sheathing on exposed deck $T\left(\dfrac{L-S}{L}\right)=$

Depth for Freeboard (D) = 17.03

DEPTH CORRECTION.

(a) Where D is greater than Table depth (D—Table depth) R =

$\dfrac{(17.03 - 12.67)\,1.461}{4.36} = 6.37$

(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) 33'-0"

Standard Round of Beam = $\dfrac{B \times 12}{50}$ = 7.92"

Ship's Round of Beam = 8¼ ins.

Difference Excess .33

Restricted to

Correction = $\dfrac{\text{Diff}''}{4} \times \left(1 - \dfrac{S_1}{L}\right)$ = $\dfrac{.33}{4} \times .6546$ = .05

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S) Feet	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
See sketch Poop enclosed	46.50	48.42	7.25	✓	48.42
on reverse „ overhang	48.42				
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft ...					
„ overhang forward ...	16.00				
F'cle enclosed	~~16.40~~	16.00	6.5	✓	16.00
„ overhang	1.21	1.21			1.21
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward...					
Total	65.63	65.63			65.63

Standard Height of Superstructure 6.0'

„ „ R.Q.D.

Deduction for complete superstructure 25.00"

Percentage covered $\dfrac{S}{L}$ =

„ „ $\dfrac{S_1}{L}$ = } 34.54

„ „ $\dfrac{E}{L}$ =

Percentage from Table, Line A. 18.86
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required)

Deduction = $25.00 \times .1886 = 4.71$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	29.00	1	29.00	29.75	29.75	1	29.75
⅙L from A.P. ...	12.90	4	51.60	12.50	12.50	4	50.00
⅔L „ ...	3.19	2	6.38	3.50	3.50	2	7.00
Amidships	0	4	0	—	0	4	0
⅔L from F.P. ...	6.38	2	12.76	6.50	6.50	2	13.00
⅙L „ ...	25.81	4	103.24	26.50	26.50	4	106.00
F.P.	58.00	1	58.00	57.25	57.25	1	57.25
Total ...			260.98				263.00

$\dfrac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}}=$ } Excess

$\dfrac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}}=$

$\dfrac{\text{Length of enclosed superstructure}}{L}$ forward of amidships = } Nil.

„ „ „ aft of „ =

Correction = $\dfrac{\text{Difference between sums of products}}{18}\left(.75 - \dfrac{S}{2L}\right) = \dfrac{2.02}{18}(.75 - .1727) = \dfrac{.5773}{} = -.06$

If limited on account of midship superstructure. *Yes. Nil*

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 17.03 Ft.

Summer freeboard = 3.52

Moulded draught (d) = 13.51

Deduction for Tropical freeboard and addition for

Winter freeboard = $\dfrac{d}{4}$ inches = 3.38 = 3½"

Addition for Winter North Atlantic Freeboard (if required) = 2 + 3½ = 5½

Deduction for Fresh Water.

Displacement in salt water at summer load water line 13'-6"

△ =1928 tons

Tons per inch immersion at summer load water line

T = 13.83

Deduction = $\dfrac{\triangle}{40\,T}$ inches

= 3.49"

= 3½"

TABULAR FREEBOARD ~~corrected for Flush Deck (if required)~~

Correction for coefficient $\dfrac{.800 + .68}{1.36}$ = 1.48/1.36

21.40

23.29

	+	−
Depth Correction	6.37	—
Deduction for superstructures ...	—	4.71
Sheer correction	—	—
Round of Beam correction ...	—	.05
Correction for Thickness of Deck amidships ...	—	—
Other corrections, scantlings, ~~the corresponding~~ *to a Summer moulded draught of 13'-6" (13.51' Actual)*	17.35	—
	23.72	4.76

AR
3.1.57

+ 18.96

Summer Freeboard = 42.25"

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

Tropical Fresh Water Line above Centre of Disc ...	7½	Tropical Fresh Water Freeboard ...	3'-6¼"
Fresh Water Line „ „ ...	3½	Fresh Water ...	2'-11¼"
Tropical Line „ „ ...	3½	Tropical ...	3'-2¾"
Winter Line below „ „ ...	3½	Winter ...	3'-2¼"
Winter North Atlantic Line „ „ ...	5½	Winter North Atlantic ...	3'-9¼"
			3'-11¾"
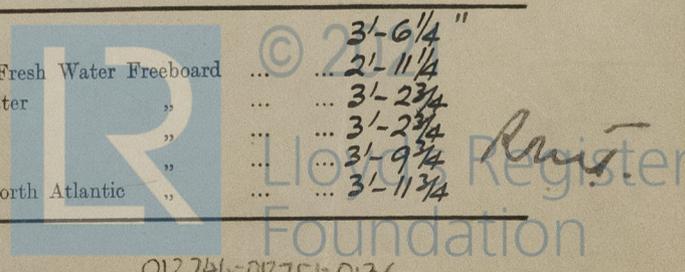
8.1.57

5m T 12/47.

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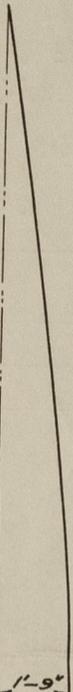
46'-6"   1'-9"
TO A.P.
47.25' to ₵
of rudder stock.

POOP FRONT

Length of poop at side = 47.25'
+ 2/3 × 1.75   = 1.17
Equiv't length = 48.42'

Trade of ship   International

Names of sister ships   "KYUNG NAM"

Builder's name and yard number   Cheoy Lee Shipyard - Yard No.652.

Owners   Samik Trading Company, Limited.

Fee £   :