

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

AUG 3 1937

Ship's Name YENANGYAUNG	Official Number 161608	Nationality and Port of Registry British Newcastle	Gross Tonnage 5446.85	Date of Build 1937	Port of Survey Newcastle on Tyne
Moulded Dimensions: Length 385.84 Breadth 54' Depth 31'					Date of Survey 29 July 1937
Moulded displacement at moulded draught = 85 per cent. of moulded depth 11836 tons					Surveyor's Signature H. T. Akester
Coefficient of fineness for use with Tables .7562 .754					Particulars of Classification +100 A1 <i>carrying petroleum in bulk contemplated</i>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 31.0	(a) Where D is greater than Table depth (D - Table depth) R = (31.06 - 25.12) 2.968 = +15.85"	Moulded Breadth (B) 54.0
Stringer plate06	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ 12.96
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 13.5
Depth for Freeboard (D) = 31.06		Difference Express = .54
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.54}{4} \times .4735 = -.06$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	108.84	108.84	8'	✓	108.84	Standard Height of Superstructure 7.36'
" overhang ...	3.00	1.50	"	✓	1.50	" " R.Q.D. ✓
R.Q.D. enclosed ...	✓					Deduction for complete superstructure 41.06"
" overhang ...	✓					Percentage covered $\frac{S}{L} =$ 53.60
Bridge enclosed ...	33.00	33.00	8'	✓	33.00	" " $\frac{S_1}{L} =$ 52.65
" overhang aft ...	2.25	2.25	"	✓	2.25	" " $\frac{E}{L} =$ 52.65
" overhang forward ...	✓					Percentage from Table, Line A. Tanker 43.91
F'cle enclosed ...	56.11	56.11	8'	✓	56.11	(corrected for absence of forecastle (if required))
" overhang ...	2.89	1.44	"	✓	1.44	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 = 41.06 × .4391 = 18.03
" forward ...	✓					
Total ...	206.84	203.14			203.14	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	48.59	1		48.59	50.25	50.25	1		50.25	Mean actual sheer aft = Express
1/4 L from A.P. ...	21.62	4		86.48	22.625	22.625	4		90.50	Mean actual sheer forward = Express
2/4 L " ...	5.3	2		10.68	5.55	5.55	2		11.10	Mean standard sheer forward = Express
Amidships ...	✓	4		-	-	-	4		-	Length of enclosed superstructure forward of amidships =
3/4 L from F.P. ...	20.69	2		21.38	11.05	11.05	2		22.10	" " aft of " = } Tanker.
1/4 L " ...	43.2	4		173.00	44.05	44.05	4		176.20	
F.P. ...	94.14	1		94.14	97.5	97.5	1		99.50	
Total ...	437.31			437.30					447.65	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{10.35}{18} (.75 - .268) = -.28"$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line @ 26.15	Correction for coefficient $\frac{.754 + .68}{1.36} = \frac{1.434}{1.36}$
Depth to Freeboard Deck = 31.06	Δ = 47.17	Depth Correction ... 15.85
Summer freeboard = 4.92	Tons per inch immersion at summer load water line 42.22	Deduction for superstructures ... 18.03
Moulded draught (d) = 26.14	Deduction = $\frac{\Delta}{40}$ inches 1.13	Sheer correction ... 1.28
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.53 = 6 1/2"	6.98"	Round of Beam correction06
Addition for Winter North Atlantic Freeboard (if required) = 6.53 + 3.86 = 10.39 = 10 1/2"		Correction for Thickness of Deck amidships ...
		Other corrections, scantlings, etc. ...
		Summer Freeboard = 58.94

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

Tropical Fresh Water Line above Centre of Disc ...	13 1/2"	Tropical Fresh Water Freeboard ...	4'-11"
Fresh Water Line " " ...	4"	Fresh Water " " ...	3'-9 1/2"
Tropical Line " " ...	6 1/2"	Tropical " " ...	4'-4"
Winter Line below " " ...	6 1/2"	Winter " " ...	4'-4 1/2"
Winter North Atlantic Line " " ...	10 1/2"	Winter North Atlantic " " ...	5'-9 1/2"

10m 8.37. T.

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15/9/41

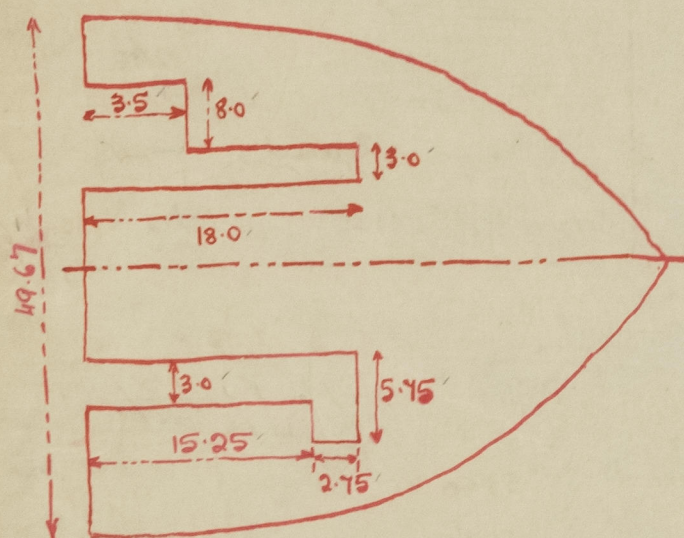
RECEIVED

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Young Young.

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.

Ponsonable equiv. bulkhead.



$$\begin{aligned} 3.5 \times 8.0 &= 28.00 \\ 18.0 \times 3.0 &= 54.00 \\ 15.25 \times 3.0 &= 45.75 \\ 2.75 \times 5.75 &= 15.81 \\ \hline &143.56 \end{aligned}$$

$$\frac{143.56}{49.67} = 2.89 \text{ Overhang.}$$

$$59.00 - 2.89 = 56.11$$

Trade of ship

Tanker

Names of sister ships

✓

Builder's name and yard number

Swan Hunter & Wigham Richardson Ltd. No 1131

Owners

The Burmah Oil Co. Ltd.

Fee £

will be charged
with F.E.



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Foundation