

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

TRV
36873

Ship's Name
"T.R.V. 6"

Official Number
✓

Nationality and Port of Registry
✓

Gross Tonnage
196
(approx.)

Date of Build
1945

Port of Survey
HULL

Date of Survey
During construction

Surveyor's Signature
F. J. Palmer

Particulars of Classification
100A1
For Government Service
(Contemplated)

Moulded Dimensions: Length 97.25 Breadth 20.83 Depth 9.062
Moulded displacement at moulded draught = 85 per cent. of moulded depth 322 tons
Coefficient of fineness for use with Tables .722

DEPTH FOR FREEBOARD (D).
Moulded depth ... 9.062
Stringer plate ... 1.025
Sheathing on exposed deck
 $T \frac{(L-S)}{L} =$
Depth for Freeboard (D) = 9.087

DEPTH CORRECTION.
(a) Where D is greater than Table depth
(D-Table depth) R =
 $(9.09 - 6.49) \times \frac{22.25}{130} = +1.94$
(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) 20.83
Standard Round of Beam = $\frac{B \times 12}{50} = 5.00$
Ship's Round of Beam = 5.00
Difference Nil
Restricted to
Correction = $\frac{\text{Diff}^\circ}{4} \times (1 - \frac{S_1}{L}) = \text{Nil}$

DEDUCTION FOR SUPERSTRUCTURES.

trunk of stove

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	43.67	43.67	7.0	-	43.67
„ overhang	✓				
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft					
„ overhang forward					
F'cle enclosed	15.75	15.75	6.5	-	15.75
„ overhang	1.75	.88	-	-	.88
Trunk aft					
„ forward					
Tonnage opening aft					
„ forward					
Total	61.17	60.30			60.30

Standard Height of Superstructure 6.0

„ „ R.Q.D. ✓

Deduction for complete superstructure 15.73

Percentage covered $\frac{S}{L} = 62.90$

„ „ $\frac{S_1}{L} = 62.00$

„ „ $\frac{E}{L} =$

Percentage from Table, Line A. 49.40
(corrected for absence of fore-castle (if required))

Percentage from Table, Line B. -
(corrected for absence of fore-castle (if required))

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

Deduction = 15.73 x 49.4 = -7.77.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	19.50	1	.73	19.50	5.00	5.00	1	5.00	5.00
1/4 L from A.P.	8.68	4	.78	34.72	.25	.25	4	1.00	1.00
3/4 L „	2.15	2	.17	4.30	-.75	-.75	2	-1.50	-1.50
Amidships	✓	4	✓	✓	Nil	-	4	-	-
3/4 L from F.P.	4.30	2	.34	8.68	4.00	4.00	2	8.00	8.00
1/4 L „	17.36	4	.55	70.22	13.00	13.00	4	52.00	52.00
F.P.	39.00	1	.45	39.00	26.00	26.00	1	26.00	26.00
Total	177.54			175.56					90.50

Mean actual sheer aft
Mean standard sheer aft = } Deficient

Mean actual sheer forward
Mean standard sheer forward = }

Length of enclosed superstructure forward of amidships = } Deficient

„ „ aft of „ = } Sheer.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{87.04 (.75 - .3145)}{18} = +2.11$
If limited on account of midship superstructure. 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 = 9.09

Summer freeboard = 0.52

Moulded draught (d) = 8.57

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.14 = 2 1/4

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 366$

Tons per inch immersion at summer load water line

T = 4.28

Deduction = $\frac{\Delta}{40 T}$ inches = 2.14 = 2 1/4

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{721 + 68}{1.36} = \frac{1.401}{1.36} =$

	+	-
Depth Correction	1.94	-
Deduction for superstructures	-	7.77
Sheer correction	2.11	-
Round of Beam correction	-	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	4.05	7.77
Summer Freeboard =	6.30	

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

13 JUL 1945

Tropical Fresh Water Line above Centre of Disc	✓	2 1/4	Tropical Fresh Water Freeboard	0'-6 1/4
Fresh Water Line	At	2 1/4	Fresh Water	0'-4
Tropical Line	Not assigned	2 1/4	Tropical	0'-8 1/2
Winter Line	below	2 1/4	Winter	
Winter North Atlantic Line	Not assigned		Winter North Atlantic	

5m T 11/41. M.C.C.

Lloyd's Register Foundation

28/8/45

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.

Trade of ship ☒

Names of sister ships

"T.R.V.5", *Wm J. S. Watson (Gainsborough) Ltd. Yard No 1535*

Builder's name and yard number

" " " " " 1549

Owners

The Admiralty

Fee £

4 : 0 : 0



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Foundation