

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "T.R.V. 8."	Official Number ✓	Nationality and Port of Registry BRITISH ✓	Gross Tonnage 196 <i>APPROX</i> 193	Date of Build 1946	Port of Survey HULL
Moulded Dimensions: Length 97.25 Breadth 20.83 Depth 9.062 <i>to centre midship stock</i>					Date of Survey During Construction
Moulded displacement at moulded draught = 85 per cent. of moulded depth 322 tons					Surveyor's Signature F. Palmer
Coefficient of fineness for use with Tables .722					Particulars of Classification 100A1 FOR GOVERNMENT SERVICE (Contingent)

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 9.062	(a) Where D is greater than Table depth (D-Table depth) R = (9.09 - 6.49) × 748 = +1.94 2.60	Moulded Breadth (B) 20.83
Stringer plate 1025	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50}$ = 5.00
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 5.00
Depth for Freeboard (D) = 9.087		Difference NIL
		Restricted to
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right)$ = NIL

DEDUCTION FOR SUPERSTRUCTURES.

	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					
Fore 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 $\frac{S}{L} = 62.90$
„ „ $\frac{S_1}{L} =$
„ „ $\frac{E}{L} =$ } **62.00**
Percentage from Table, Line A. **49.40**
(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 = **15.73 × 49.4 = 7.77**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	⁷³ 19.50	1	⁷³ 19.50	5.00	5.00	1	5.00		
$\frac{1}{8}$ L from A.P.	⁷⁸ 8.66	4	^{35.12} 34.72	.25	.25	4	1.00		
$\frac{3}{8}$ L „	¹⁷ 2.15	2	³⁴ 4.30	-.75	-.75	2	-1.50		
Amidships	✓	4	✓	NIL	-	4	-		
$\frac{5}{8}$ L from F.P.	³⁴ 4.30	2	⁸ 8.60	4.00	4.00	2	8.00		
$\frac{7}{8}$ L „	⁵⁵⁵ 17.36	4	^{70.22} 69.44	13.00	13.00	4	52.00		
F.P.	⁴⁵ 39.00	1	⁴⁵ 39.00	26.00	26.00	1	26.00		
Total	^{177.54} 177.54		^{145.56} 145.56				90.50		

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{87.04}{18} \left(.75 - \frac{31.45}{43.55} \right) = +2.11$
If limited on account of midship superstructure.

Mean actual sheer aft
Mean standard sheer aft =

Mean actual sheer forward
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
„ „ aft of „ =

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	Correction for coefficient $\frac{721 + 68}{1.36} = \frac{1.401}{1.36}$	9.50
Depth to Freeboard Deck = 9.09	$\Delta = 366$	Depth Correction	1.94
Summer freeboard = .52	Tons per inch immersion at summer load water line	Deduction for superstructures	7.77
Moulded draught (d) = 8.57	T = 4.28	Sheer correction	2.11
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction	-
Winter freeboard = $\frac{d}{4}$ inches = 2.14 = 2 1/4	= 2.14	Correction for Thickness of Deck amidships	-
Addition for Winter North Atlantic Freeboard (if required) = ✓	= 2 1/4	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 :-

Tropical Fresh Water Line above Centre of Disc	✓	Tropical Fresh Water Freeboard	0'-6 1/4"
Fresh Water Line „ „	2 1/4	Fresh Water „ „	0'-4"
Tropical Line „ „	NO. 1. ASSIGNED	Tropical „ „	-
Winter Line below „ „	2 1/4	Winter „ „	0'-8 1/2"
Winter North Atlantic Line „ „	NO. 1. ASSIGNED	Winter North Atlantic „ „	-

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. 7" *Wm. J. S. Watson (Gainsborough) Ltd. Yard No 1550.*

Builder's name and yard number

" " " " " 1551.

Owners

The Admiralty

Fee £ 4 : 0 : 0



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Foundation