

1966 LOAD LINE CONVENTION

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING SURVEYS FOR FREEBOARD

(COMPUTATION FOR ~~STEAMER, SAILING SHIP, TANKER~~ ^{TYPE A SHIP})

Received
Index No.
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Owners C11

Ship's Name GIORDANO BRUNO	Official Number 1028	Nationality and Port of Registry RUSSIAN ODESSA	Gross Tonnage 31294	Date of Build 5/1964	Port of Survey LONDON H.B.
Moulded Dimensions: Length 215.233 M Breadth 31.000 Depth 15.527 (.850-13.198)					Date of Survey CALC. 11/5-1966
Freeboard Length 215.233 M (70' 4" OF RUDDER STOCK)					Surveyor's Signature Fully Signed
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 72324 M. tons					Particulars of Classification +100 A1 OIL TANKER "ICE CLASS 3"
Coefficient of fineness for use with Tables .801					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	15.527	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	
Stringer plate	33.5	(15.561-14.749) 250 = +303 1/4		Standard Round of Beam = $\frac{B \times 12}{50}$	=
Wood Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	=
T $\left(\frac{L-S}{L}\right)$ =				Difference	
Depth for Freeboard (D) =	15.561	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L}\right)$	=

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	46.636		2570/3210		46.636
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	15.130		3000		14.832
" overhang aft					
" overhang forward					
F'cle enclosed	28.628		2777/4258		28.628
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	90.374				90.096

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	M	Product
A.P.	2044	1	2044	518	518	1	518
1/2 L from A.P.	907	34	2721	78	78	34	234
2/3 L	229	32	687	0	0	32	0
Amidships	0	24	0	0	0	24	0
2/3 L from F.P.	458	32	1374	0	0	32	0
1/2 L	1815	34	5445	115	115	34	345
F.P.	4087	1	4087	832	832	1	832
Total			16358				1929

Correction = $\frac{\text{Difference between sums of products}}{16} \left(\cdot 75 - \frac{S}{2L} \right) = \frac{(16358-1929)}{16} (-153) = +405 \frac{1}{4}$

If limited on account of midship superstructure.

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	
Depth to Freeboard Deck	= 15.561	$\Delta = 66710$		1.36	
Summer freeboard	= 3.352	Tons per inch immersion at summer load water line			
Moulded draught (d)	= 12.209	T = 59.15			
Keel allowance	=	Deduction = $\frac{\Delta}{40 T}$ inches			
Extreme draught	=	= 40 T			
Deduction for Tropical freeboard and addition for	= 254 1/4	282 1/4			
Winter freeboard = d inches	= 254 1/4				
Addition for Winter North Atlantic Freeboard (if required)	= INAPPLICABLE				

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Steel, Deck :-			
Tropical Fresh Water Line above Centre of Disc	536 1/4	Tropical Fresh Water Freeboard	2816 1/4
Fresh Water Line	282 1/4	Fresh Water	3070 1/4
Tropical Line	254 1/4	Tropical	3098 1/4
Winter Line below	254 1/4	Winter	3606 1/4
Winter North Atlantic Line	INAPPLICABLE	Winter North Atlantic	INAPPLICABLE

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.

Freeboard length:

$$L_{FD} \text{ at } .850 = 215.033 + .207 = 215.233 \text{ M}$$

$$L \text{ of WL at } .850 = 215.233 \text{ M} + 7.00 \text{ M} = 222.233 \text{ M} \quad (.96 L = 213 \text{ M})$$

Row height:

Reg'd — 20.7 feet

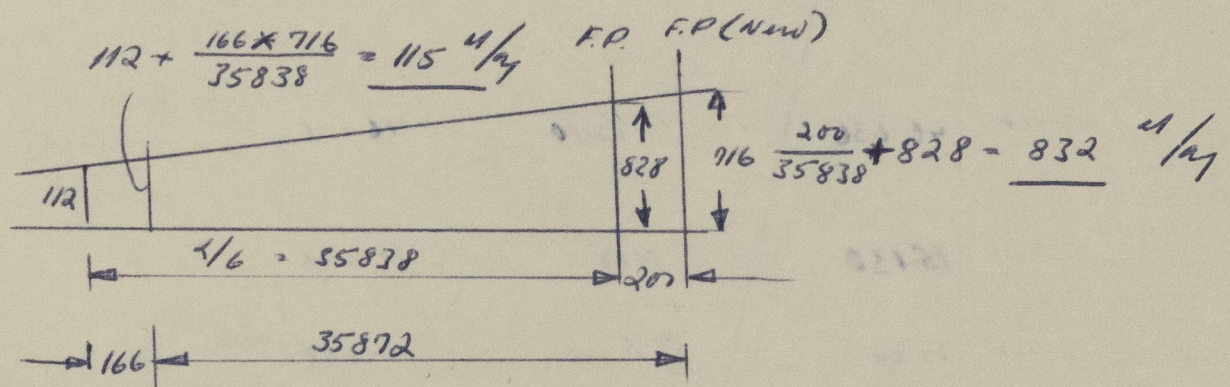
Actual — 3352 M

832 "

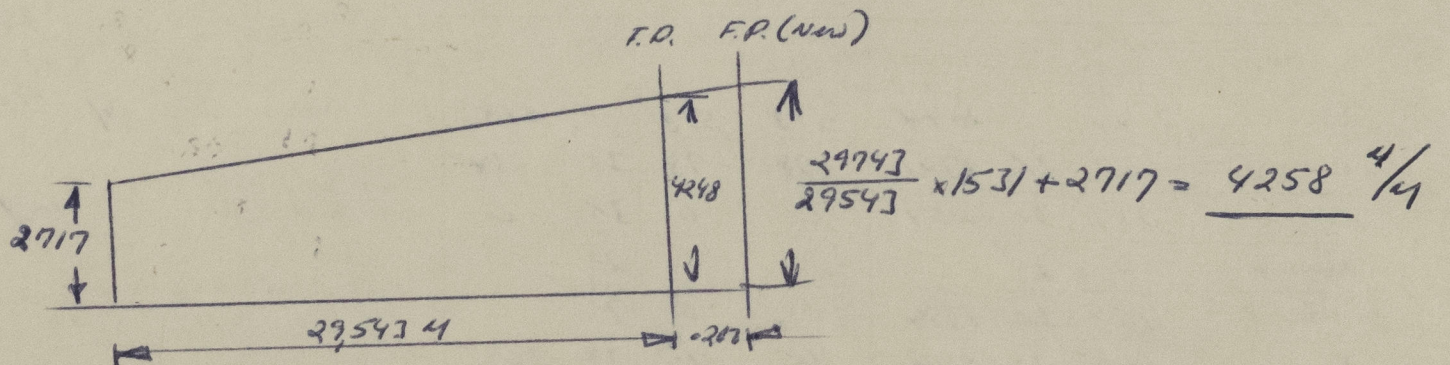
4258 "

8442 M ~ 27.6 feet

Sheer:



Forecastle:



Trade of Ship.....

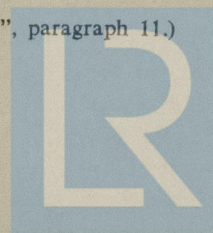
Names of sister ships.....

Builder's name and yard number.....

Owners.....

Fee £.....:

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)



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