

16 NOV 1932

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LLOYD'S REGISTER OF SHIPPING.

(CLASSIFICATION SOCIETY RECOGNISED BY THE JAPANESE GOVERNMENT)

SURVEY FOR FREEBOARD.

Ship's Name "NAGOYA MARU"	Port of Registry Fuchu	Official No.	No. in R.B.	Gross Tonnage 6069 about.	Tonnage under Fbd. Deck = V 5271.78	Date of Launch 5th May 1932	Date when Built	Report Number 87
Owners Ishihara Gomei Kaisha.		Builders Mitsubishi Zosen Kaisha, Nagasaki.		Yard No. 503		Port of Survey Nagasaki.		
Type of vessel Full Scantling.	Particulars of Classification * 100 A.1.		Position of Freeboard Deck Upper Deck.		Date of Survey While building.			
					Name of Surveyor G. Anderson and H.J. Cox.			

PRINCIPAL DIMENSIONS.

Length between perpendiculars..... 405 ft.	Breadth Moulded = B ₀ 55.5 ft.	Depth Moulded to Fbd. deck = D ₀ 32.5 ft.
Length on Load Line..... 405 ft.	Thickness of Side plating in ins. x ³ / ₁₂ °..... .66x3/12 + .17 ft.	Round of Beam 14" = + 1.17 ft.
	* (2/12 if plating is joggled)	Depth from base T.O. keel line to top of inner bottom plating or ordinary floors - 3.83 ft.
Length for Freeboard = L..... 405 ft.	Breadth for Freeboard = B..... 55.67 ft.	Depth for Tonnage Coef. (Art. 39) = D..... 29.84 ft.

CORRECTION TO TONNAGE (Art. 39)

Tonnage between top of ceiling on double bottom or ordinary floors as fitted and standard level of top of ceiling (v) = **1.64** tons.

DEPTH OF DOUBLE BOTTOM (Art. 39)

Depth of Actual Double Bottom (including plating) or Ordinary Floors	45.50 + .50	46.00 ins.
Depth of Standard Double Bottom (including plating) or Ordinary Floors	44" + .52	44.52 ins.
Difference		1.48
x ¹ / ₁₂ =		.12 d.

SHEER (Arts. 39 and 60-63)

Ordinate	Height of Sheer in inches.	S.M.	Products
1	105.0	1	105.0
2	47.13	4	188.52
3	12.41	2	24.82
4	0	4	0
5	6.09	2	12.18
6	23.31	4	93.24
7	51.00	1	51.00

Sum of Products = **474.76**

Mean Height of Sheer = S = $\frac{\text{Sum of Products}}{18} = \frac{474.76}{18} = 26.38$ ins.
Standard Mean Height = S₀ = $\frac{1}{3}(L/10 + 10) = \frac{1}{3}(405/10 + 10) = 16.83$ ins.
Difference = **9.55** x ¹/₁₂ = **.80** ft. = d₁
Correction (Arts. 60-63) = $\frac{3}{4}(1 - e)(S_0 - S) = \frac{3}{4}(1 - .672) \times 9.55 = 4.81$ ins.

FRAMING (Art. 39)

Between Frames	Length in ft.	Depth of Frame in ins.	Thickness of Sparring in inches	Total depth in inches	Products ft. x inches
AP & 9	18.79	8"	0	8	150.32
9 & 16	17.63	9"	2	11	193.93
16 & 57	112.75	9.06"	2	11.06	1247.02
57 & 87	82.50	11.82"	0	11.82	975.15
87 & 129	110.50	9.06	2	11.06	1222.13
129 & 148	42.50	11.82	2	13.82	587.35
148 & FP	20.33	8.00	0	8	162.64

405.00

Sum of Products = **4538.54**

Sum of Products = Actual Mean Depth of framing **11.21** ins.
Length of Ship **614.2** " " **8.50** ins.
Standard " " " " **2.71** x ²/₁₂ = **.45** = 2b
Difference

COEFFICIENT OF FINENESS (Art. 39 or 43)

$$\frac{100(V \pm v)}{L(B - 2b)(D + d + d_1)} + n$$

$$\frac{527242}{405(55.67 - .45)(29.84 + .12 + .80)} = .77$$

$$\text{or } \frac{35 \times \Delta}{L \times B_0 \times d_0} + 0.04$$

$$= \text{---} + 0.04 =$$

Sketch showing arrangement and height of double bottom or ordinary floors and of superstructures (unless complete plans are submitted).

Tank top falls 2" from ϵ to margin

Standard Depth of Double bottom

Actual Depth of Double Bottom

Correction = $\frac{365.88 \times 48 \times .75 \times .08}{100} = 10.54$

Nett Correction 10.54 - 9.90 = **1.64** tons.

44.52 + 2.5 = 47.02

46.0 + 3.0 - 2/2 = 48.00

difference = .98"

= .08

No Ceiling in Machinery Space

48' x 82.5' = 3960 sq. ft.

3960 x .25 = -9.90 tons.

100

See original from H. 10.32

Sketch of deck erections showing openings in end bulkheads and position and arrangement of closing appliances. Hatchways, and Engine and Boiler openings also to be shown. Extent and thickness of wood deck or composition to be shown in red ink, and extent and thickness of ceiling (and battens) on tank top to be given.

Lloyd's Register Foundation

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(*) 2/3 d
of cambe
= 3.67"
Mean Woo
on Br. = 1

3

LONGITUDINAL MODULUS.

Height of Assumed Axis above base =	Section at
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DRAUGHT PERMITTED BY LONGITUDINAL STRENGTH (Arts. 81-86) = $\frac{\text{Actual Modulus}}{f \cdot B_2} = \dots\dots\dots$

A hand-drawn diagram of a T-joint. The vertical member has a height labeled H . The horizontal member has a thickness labeled t . A weld profile is shown at the junction, with a fillet weld on the top and a bevel weld on the bottom. The diagram is drawn on a piece of paper with a large 'R' watermark and the text '© 2017 Lloyd's F Funda'.