

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Report N° 3905

8 OCT 1932

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Index. No.

(For London Office only.)

24844

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having a poop, bridge & forecastle

Port of Survey

Fredrikstad

Date of Survey

4.10.32

Name of Surveyor

P. Laide

Particulars of Classification

100 A 1

S. S. osl. N° 3-1.30

Ship's Name

"GIMLE"

Nationality and Port of Registry

Norwegian
Oslo

Official Number

Gross Tonnage

Date of Build

1271

1916

12

Moulded Dimensions: Length

237.0

Breadth 36.25

Depth 18.0

2390

tons

Moulded displacement at moulded draught = 85 per cent. of moulded depth

.770

Coefficient of fineness for use with Tables

Depth for Freeboard (D)

18.00

led depth

.04

exposed deck

)

Depth for Freeboard (D) =

18.04

Depth correction

(a) Where D is greater than Table depth

(D - Table depth) R =

(18.04 - 15.80) 1.823 = + 4.08

(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)

36.25

Standard Round of Beam = $\frac{B \times 12}{50}$ = 8.70

Ship's Round of Beam

9.00

Difference

.30

Restricted to

Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L})$ = $\frac{.30}{4} \times .5772$ = .04

DEDUCTION FOR SUPERSTRUCTURES.

| | Mean Covered Length (S) | Equivalent Enclosed Length (S _i) | Height | Height Correction | Effective Length (E) |
|------------------|-------------------------|--|--------|-------------------|----------------------|
| sed ... | 19.7 | 19.70 | 7.0 | ✓ | 19.70 |
| ang ... | ✓ | | | | |
| losed ... | 57.5 | | | | |
| hang ... | 55.79 | 55.79 | 7.0 | ✓ | 55.79 |
| osed ... | ✓ | | | | |
| hang aft ... | 1.9223 | .96 | | | .96 |
| hang forward ... | 11.6324 | 11.63 | 7.0 | ✓ | 11.63 |
| ed ... | 13.0 | 12.13 | | | 12.13 |
| ang ... | | | | | |
| ard ... | | | | | |
| ening aft ... | | | | | |
| " forward | | | | | |
| al ... | 102.04 | 100.21 | | | 100.21 |

Standard Height of Superstructure

6.0

" " R.Q.D.

Deduction for complete superstructure

29.70

Percentage covered $\frac{S}{L} = 43.06\%$ " $\frac{S_i}{L} = 42.28\%$ " $\frac{E}{L} = 42.28\%$

Percentage from Table, Line A.

(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 = 29.70 × .2943 = - 8.74

SHEER CORRECTION.

| Standard Ordinate | S | M | Product | Actual Ordinate | Effective Ordinate | S | M | Product |
|-------------------|---|--------|---------|-----------------|--------------------|---|--------|---------|
| 33.70 | 1 | 33.70 | 37" | 43.00 | 33.70 | 1 | 33.70 | 33.70 |
| 14.99 | 4 | 59.96 | 19" | 19.50 | 14.99 | 4 | 59.96 | 59.96 |
| 3.71 | 2 | 7.42 | 8" | 4.80 | 3.71 | 2 | 7.42 | 7.42 |
| ✓ | 4 | ✓ | - | ✓ | ✓ | 4 | ✓ | ✓ |
| 7.41 | 2 | 14.82 | 14 | 7.00 | 7.00 | 2 | 14.00 | 14.00 |
| 29.99 | 4 | 119.96 | 37 | 27.20 | 27.20 | 4 | 108.80 | 108.80 |
| 67.40 | 1 | 67.40 | 74 | 71.00 | 71.00 | 1 | 71.00 | 71.00 |
| | | 303.26 | | | | | | 294.88 |

Difference between sums of products $(75 - \frac{S}{2L}) =$

8.38

If limited to maximum allowance of 1½ ins. per 100 ft.

on account of midship superstructure.

r Tropical Freeboard.

Winter and Winter North Freeboard.

o Freeboard Deck = 18.04

Freeboard = 2.27

ould draught (d) = 15.77

ropical freeboard and addition for

eboard = $\frac{d}{4}$ inches = 3.94 = 4

Winter North Atlantic Freeboard (if

= 2

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40T}$ inches

=

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

.770 + .68 = 1.45

1.36

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

4.33

8.78

Summer Freeboard = 27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

27.28

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

| HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS | | | | | | | | | |
|---|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|
| Description of Hatchway | on upper deck | | on lower deck | | on poop | | on fore deck | | |
| | N ^o 1 | N ^o 2 | N ^o 3 | N ^o 4 | N ^o 5 | N ^o 6 | N ^o 7 | N ^o 8 | |
| Dimensions of Hatchway | 22' 3" | 20' 6" | 14' 8" | 14' 8" | 17' 3" | 17' 3" | 22' 2" | 19' 2" | 19' 2" |
| COAMINGS | Height above Deck | 40" | 19" | 8" | 10" | 3' 8" | 15" | 18" | |
| | Thickness | 4 1/2" | 4 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | |
| | Sides | 4 1/2" | 4 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | 3 1/2" | |
| | Stiffeners | 7" BA | 7" BA | 7" BA | 7" BA | 7" BA | 7" BA | 7" BA | |
| HATCH BEAMS | Number | Two | Two | Two | Two | Two | Two | Two | |
| | Spacing | Equal | Equal | Equal | Equal | Equal | Equal | Equal | |
| | Scantling and Sketch | 18 1/2" x 38" x 40" | 18 1/2" x 38" x 40" | 18 1/2" x 38" x 40" | 18 1/2" x 38" x 40" | 18 1/2" x 38" x 40" | 18 1/2" x 38" x 40" | 18 1/2" x 38" x 40" | |
| | Bearing Surface | 3" x 3" x 32" x 40" | 3" x 3" x 32" x 40" | 3" x 3" x 32" x 40" | 3" x 3" x 32" x 40" | 3" x 3" x 32" x 40" | 3" x 3" x 32" x 40" | 3" x 3" x 32" x 40" | |
| FORE AND AFTERS | Number | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | |
| | Spacing | 3' 8" | 3' 8" | 3' 8" | 3' 8" | 3' 8" | 3' 8" | 3' 8" | |
| | Unsupported Lengths | 8' 7" | 8' 7" | 8' 7" | 8' 7" | 8' 7" | 8' 7" | 8' 7" | |
| | Scantling and Sketch | 7" x 7" | 7" x 7" | 7" x 7" | 7" x 7" | 7" x 7" | 7" x 7" | 7" x 7" | |
| HATCH COVERS | Material | wood | wood | wood | wood | wood | wood | wood | |
| | Thickness | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | |
| | How fitted | athwartships | athwartships | athwartships | athwartships | athwartships | athwartships | athwartships | |
| | Bearing Surface | 2 1/2" x 2 1/2" | 2 1/4" x 2 1/4" | 2 1/4" x 2 1/4" | 2 1/4" x 2 1/4" | 2 1/4" x 2 1/4" | 2 1/4" x 2 1/4" | 2 1/4" x 2 1/4" | |
| Spacing of Cleats | 24" | 18" | 18" | 18" | 18" | 18" | 18" | 18" | |
| Number of Tarpaulins | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |

*Are wood fore and afters steel shod at all bearing surfaces? *Yes*
 Are battens and wedges efficient and in good condition? *Yes*
 Are tarpaulins in good condition and in accordance with rule requirements? *Yes*
 Are lashings provided in accordance with rule requirements? *Yes, steel battens*

Particulars of fiddle, funnel and ventilator coamings:— *Fiddle openings closed by steel hinged covers, in order. Funnel & ventilator coamings on top of casing, 4' 0" above bridge deck, in good condition.*

Particulars of Flush Bunker Scuttles:— *none*

Particulars of Companionways:— *House on poop: 7' 7" x 4' 3" x 6' 6". Opening to crew space below, 4' 6" x 1' 9 1/2". All 12" above wood sheathing. Steel hinged door stbd. 1 small steel skylight at front of case, in good condition.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:— *Forecastle: Two 18" x 25" x 26" (passing through from upper deck). Fore deck: Two 18" x 10" x 30" supported at bridge front. Bridge deck: Two 8 1/2" x 27" x 20". After deck: Two 18" x 3' 0" x 36" — one 9" x 27" x 26". Poop deck: Two 18" x 3' 0" x 36". all have means of closing.*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:— *Fore deck: one 2 1/2" x 4' 0" P.S. Bridge deck: one 2 1/2" x 28" P. one 1 1/2" x 13" P.S. After deck: one 2 1/2" x 42" P.S. Poop deck: Three 3 3/4" x 4" P.S. one 3 3/4" x 4" P. all have means of closing. Crew plugs with chains.*

Particulars of Gangway Cargo and Coaling Ports:— *none.*

Particulars of Scuppers and Sanitary Discharge Pipes:— *no scuppers. Sanitary discharge pipes: from saloon toilet stbd side open off house port side led on board at 25" above upper deck, with storm valve. From crew space one W.C. discharge 12" above upper deck, no storm valve a cock only being fitted.*

Particulars of Side Scuttles:— *In way of poop fitted with hinged deadlights*

Particulars of Guard Rails:— *Forecastle and poop: transverse 3' 3" sp. 3' 6" to 4' 1", 3 rails.*

Particulars of Gangways, Lifelines, etc.:— *Ladder placed between N^o 3 & 4 hatchway with life line; ladder from bridge deck close to hatch side.*

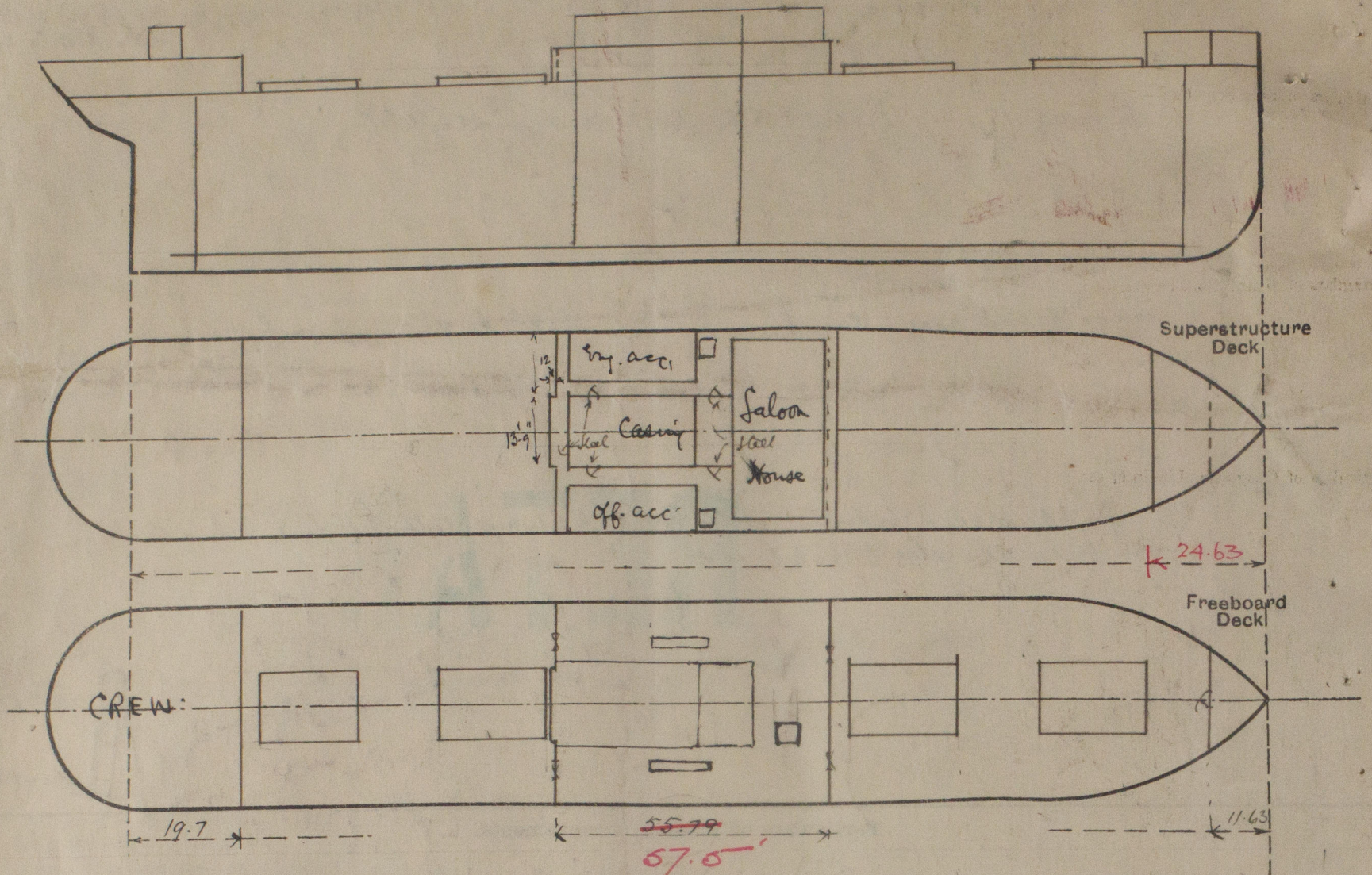
| Particulars of Freeing Arrangements. | | | | | | |
|--------------------------------------|-------------------|-------------------|-----------------------|------------------|----------------|---------------------|
| | Length of Bulwark | Height of Bulwark | Size of Freeing Ports | Number each side | Area each side | Rule area each side |
| After Well | 66' 9" | 4' 6" | 2' 11 1/2" x 1' 9" | 3 | 15.54 | 13.0 |
| Forward Well | 68' 8" | 4' 6" | 2' 11 1/2" x 1' 9" | 3 | 15.54 | 13.4 |

State position of each freeing port:— *After Well: from bridge bld. 8' 4", 30' 9" x 53' 1". (F. and A. position and height above deck edge) Forward Well: 31' 6", 53' 0" (14' 10") 12" above deck edge*
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— *1 rail & hinged shutter.*
 Additional area where sheer is less than standard.

| Particulars of Superstructures, Trunks, Casings, Deckhouses. | | | | | | | | |
|---|-----------|-----------|-----------------------|-----------|--------------------------------|-------------------|-----------------|-------------------|
| | Coaming | Plating | Stiffeners | Spacing | End Attachments of Stiffeners | Size of Openings | Height of Sills | Height of Casings |
| Poop Bulkhead | 20" x 32" | 26" x 28" | not available | 29" | Bracket top & bottom | none | ✓ | 7' 0" |
| Raised Quarter Deck Bulkhead | | | | | | 4' 6" x 4' 6" | 21 1/2" | 7' 0" |
| Bridge, After Bulkhead | 18" x 32" | 28" | 2 1/2" x 2 1/2" x 32" | 27" | none | 4' 5" x 3' 4" | 21 1/2" | 7' 0" |
| Bridge, Forward Bulkhead | 18" x 32" | 28" | 7" x 3" x 32" | 28" | Bracket top & bottom | 4' 5" x 3' 4" | 21 1/2" | 7' 0" |
| Forecastle Bulkhead | 18" x 32" | 26" | 3" x 2 1/2" x 32" | 30" x 36" | nil | 4' 8" x 1' 11" | 18" | 7' 0" |
| Trunk, Aft | | | | | | | | |
| Trunk, Forward | | | | | | | | |
| Exposed Machinery Casings on Freeboard or Raised Quarter Decks | | | | | | | | |
| (Exposed) Machinery Casings on Superstructure Decks | 23" x 32" | 26" | 3" x 2 3/4" x 32" | 27" - 30" | Bracket at top, ext. at bottom | 4' 6" x 1' 9 1/2" | 18" | 7' 0" |
| Machinery Casings within Superstructures not fitted with Class I Closing Appliances | 18" x 32" | 28" | 3" x 2 3/4" x 32" | 27" - 30" | ext. at bottom | ✓ | ✓ | ✓ |

| Particulars of Closing Appliances (state if capable of being manipulated from both sides). | |
|--|---|
| Poop Bulkhead | ✓ |
| Raised Quarter Deck Bulkhead | Steel bolted door P.S. with 3 strongbacks |
| Bridge, After Bulkhead | Steel hinged door P.S. with 3 strongbacks |
| Bridge, Forward Bulkhead | 1 steel hinged door on E. |
| Forecastle Bulkhead | |
| Exposed Machinery Casings on Freeboard or Raised Quarter Decks | |
| (Exposed) Machinery Casings on Superstructure Decks | Steel hinged door P.S. & one steel hinged door at aft end of casing |
| Machinery Casings within Superstructures not fitted with Class I Closing Appliances | ✓ |
| Deckhouses on Flush Deck Ships | |

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

A timber assignment is also desired; the report will be forwarded later.

The following information was obtained from the owners:

| Draft | Displ. tons | tons per inch |
|-------|-------------|---------------|
| 15' | 2855 | 17.4 |
| 16' | 3030 | 17.8 |
| 17' | 3250 | 17.8 |

The present freeboard as per

N.V. certificate, issued 22/1/26:

F.W. 1'-9"

T. 1'-10 1/2"

S. 2'-1"

W. 2'-3"

W.N.A. 2'-5"

B.T. June 2'-2 1/2"

from steel upper deck

at side.

Please reply by cable

No survey was held afloat

Builder's name and yard number. *Zouker + Stans, Hendrik Ido Ambacht*

Names of sister ships.

Owners. *A/S Gmle (Eiv. Evensen)*

Fee *Kr. 153.00*

Received by me

+ expenses.



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