

Form LL 4.C. Revised.

THE BRITISH CORPORATION REGISTER OF
SHIPPING AND AIRCRAFT
SURVEY FOR FREEBOARD.STEAMER, ~~TANKER, SAILER~~

"SANTYNE"

~~WITH~~ TIMBER DECK CARGO
WITHOUT

Nationality

British

Port of Registry

London

Official Number

169847

Gross Tonnage

7176

Date of Build

FEB. 1944

Builders' Name and No. of Ship NEW ENGLAND S.B. Corp.

30. PORTLAND ME. N. 2222.

Owners AMERICAN WAR SHIPPING ADM. ON CHARTER TO MDWT.

(Mails) TOTAL MAIL LINES LTD

Port and Date of survey LONDON

NOV 1944

Name of Surveyor

A. M'FAH

Names of Sister Ships

Same ships

Particulars of Classification

American Bureau
+ A.I. (E)

Type of Superstructures

Flush Deck

Trade of Ship

Service Endorsement if any

| SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line (..... steel) | | | | Corresponding Freeboard | |
|--|-------|----------------|---------|-------------------------|---|
| TROPICAL FRESH WATER LINE | above | centre of disc | 14 1/4" | " | " |
| FRESH WATER LINE | " | " | 7 1/4" | " | " |
| TROPICAL LINE | " | " | 7" | " | " |
| WINTER LINE | below | " | 7" | " | " |
| WINTER NORTH ATLANTIC LINE | " | " | — | " | " |

| |
|------------|
| 9'-8 3/4" |
| 8'-6 1/2" |
| 9'-1 1/2" |
| 9'-1 3/4" |
| 10'-3 3/4" |

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S.

FRESH WATER " " " "

TROPICAL " " " "

WINTER " " below "

WINTER NORTH ATLANTIC " " " "

Corresponding Freeboard

" "

" "

" "

" "

Number of years recommended for load line certificate

The Freeboard Report has been compared with the
approved plans and found in order.

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9 MAR 1951

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned.

Chief Surveyor.

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the 6TH DEC 1944

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Foundation

COMPUTATION OF FREEBOARD

Length on summer load line $41' - 8\frac{3}{4}"$ Moulded Breadth $56' - 10\frac{3}{4}"$ Moulded Depth $34' - 4"$ Depth of Keel $7\frac{1}{8}$
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 16500 Tons

Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times 85} = .468$

Displacement and tons per inch immersion in salt water at summer load line 14250 @ 48.42

Moulded depth 37.33

Stringer Plate .75 06

Sheathing on exposed deck T (L-S) (L)

Rise of floor (in sailers)

Depth for Freeboard (D) 37.39

Table Depth 24.85

Depth Correction 3 x 9.54

if restricted by superstructures 28.62 ON

| Enclosed Length | Length of Overhang | Height | Mean Covered Length (S) | Height Correction | Effective Length (E) |
|---------------------|--------------------|--------|-------------------------|-------------------|----------------------|
| Poep | | | | | |
| Raised Quarter Deck | | | | | |
| Bridge | F | | | | |
| Forecastle | A | | | | |
| Trunk Aft | | | | | |
| " Forward | | | | | |
| Tonnage Opening Aft | | | | | |
| " Forward | | | | | |
| Totals | | | | | |

Deduction for Fresh Water $\frac{\Delta}{40T} = .74$ inches

Round of Beam Correction $\frac{1}{10} \times \frac{1}{10} = .01$ inches

Ships Round of Beam EQU. 14.05

Standard Round of Beam $\frac{B \times 12}{50} = 13.65$

Difference 40

Restricted to

Correction $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = .10 \times 1 = .10 \text{ OFF}$

Standard Height of Superstructure

" " R.Q.D.

Percentage covered S/L

" " E/L

" From Table line A, B, (corrected for

absence of forecastle if required)

Percentage from Table by interpolation for Bridge

less than .2L if required

Deduction

Percentage from Table for Tankers (or Timber ships)

Deduction

| Station | Actual Sheer | Standard Sheer | Effective Sheer | S.M. | Product |
|---------------------------|--------------|----------------|-----------------|------|---------|
| A.P. | 54.12 | 51.77 | 54.12 | 1 | 54.12 |
| $\frac{1}{2}$ L from A.P. | 24.00 | 23.04 | 24.00 | 4 | 96.00 |
| $\frac{1}{3}$ L from A.P. | 5.00 | 5.70 | 5.00 | 2 | 10.00 |
| Amidships | - | - | - | 4 | - |
| $\frac{1}{2}$ L from F.P. | 11.75 | 11.39 | 11.75 | 2 | 23.50 |
| $\frac{1}{3}$ L " " | 47.75 | 46.08 | 47.75 | 4 | 191.00 |
| F.P. | 105.37 | 103.54 | 105.37 | 1 | 105.37 |
| | | | | 18 | 479.99 |

Effective Mean Sheer = 26.666

Standard " " OSL + 5 = 25.886

Difference .780

Mean Actual sheer aft = MORE THAN 1

" Standard " "

Mean Actual sheer forward = MORE THAN 1

" Standard " "

Length of enclosed superstructure forward of amidships

Length of Ship

Length of enclosed superstructure aft of amidships

Length of Ship

Sheer Correction = Difference $\times (75 - \frac{S}{2L}) = .78 \times .75$

= .58 OFF

If limited on account of midship superstructure

" to maximum allowance of $\frac{1}{2}$ ins. per 100 ft.

TABULAR FREEBOARD corrected for flush deck $\frac{768 + 63}{136} \times 88.75 = 83.34$

Correction for co-efficient = 136

| | + | - |
|--|-------|-----|
| Depth correction | 28.62 | - |
| Deduction for superstructures | - | - |
| Sheer correction | - | .58 |
| Round of Beam correction | - | .10 |
| Correction for thickness of deck amidships | - | - |
| Other corrections, scantlings, etc. | - | - |
| | 28.62 | .68 |

Summer Freeboard in inches $9' - 8\frac{3}{4}" = 116.69$

Additional allowance for superstructures on

Timber carrying ships

Summer Timber Freeboard in inches

Depth to Freeboard Deck in feet 37.39

Summer Freeboard in feet 9.73

Moulded Draught (d) $27' - 8"$ 27.66

Addition for Keel $7\frac{1}{8}$.07

Extreme draught $27' - 8\frac{1}{8}"$ 27.73

Deduction for Tropical and addition for Winter freeboard $d/4 = 7$ ins.

Addition for Winter North Atlantic (if required)

Deduction for Tropical Timber Freeboard $\frac{d}{4}$

Addition for Winter " " $\frac{d}{3}$

" " N.A. Timber Freeboard (if required)

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Form LL 4.D

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

CONDITIONS OF ASSIGNMENT

SHIPS NAME "SAMTYNE"

OFFICIAL NUMBER 169847

Nationality and Port of Registry British, London

PARTICULARS OF SUPERSTRUCTURES, TRUNKS, CASINGS, DECKHOUSES

| | Coaming | Plating | Stiffeners | Spacing | End Attachments | No. and size of Openings | Height of Sills | Height of Casings |
|---|---------|---------|----------------------|---------|-----------------------|--------------------------|-----------------|--------------------|
| Poep Bulkhead | | | | | | | | |
| R.Q.D. " | | | | | | | | |
| Bridge Aft Bulkhead | | | | | | | | |
| " Forward " | | | | | | | | |
| Forecastle Bulkhead | | | | | | | | |
| Trunk, Aft | | | | | | | | |
| " Forward | | | | | | | | |
| Exposed Machinery Casings on Freeboard or R.Q. Decks | | | | | | | | |
| Exposed Machinery Casings on superstructure decks | | | | | | | | |
| Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances | | | | | | | | |
| BRIDGE Deckhouses on flush deck ships | | | | | | | | |
| AFT | - | 30" | 4x3 $\frac{5}{16}$ " | 2'-6" | SNIPED TOP AND BOTTOM | 2'-60" x 30" | 15" | 20 $\frac{3}{4}$ " |
| FWD | - | 44" | 6x4 $\frac{1}{2}$ " | 2'-6" | SNIPED AT BOTTOM | 1'-51" x 20" | - | - |

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

| | |
|---|---|
| Poep Bulkhead | |
| R.Q.D. " | |
| Bridge Aft Bulkhead | |
| " Forward " | |
| Forecastle Bulkhead | |
| Exposed Machinery Casings on Freeboard or R.Q. decks | |
| Exposed Machinery Casings on superstructure decks | |
| Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances | |
| Deck houses on Flush Deck ships | Hinged steel W.T. doors. Opening both sides |

PARTICULARS OF FREEING ARRANGEMENTS

| | Length of Bulwark | Height of Bulwark | No. and size of Freeing Ports each side | Area each side | Rule Area |
|--------------|-------------------|-------------------|---|----------------|-----------|
| After Well | Bow to Fr 177 | 3'-6" | 21 @ 4'-9" x 9" | 74.81 | 83.40 |
| Forward Well | - | - | - | - | - |

State fore and aft position and height above deck to bottom of port, for each port

After Well of BRIDGE HOUSE AT FRs. 116, 122, 128, 136, 142, 150, 167
 ABREAST DECK HOUSE AT FRs. 85, 88, 94, 102, 107.
 Forward Well of BRIDGE HOUSE AT FRs. 32, 40, 50, 58, 62, 66, 74, 80.
 ALL 6" ABOVE DECK

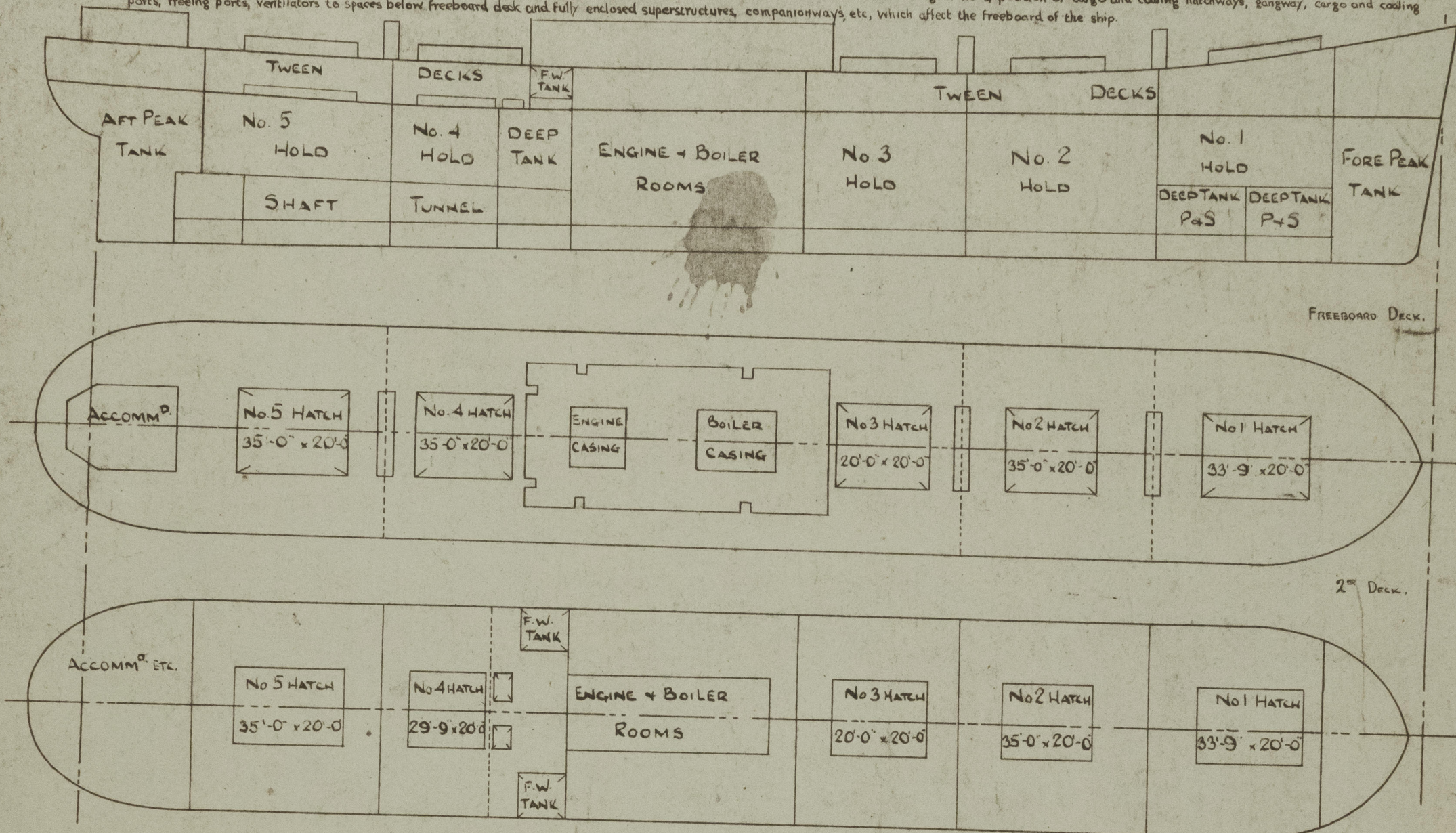
State whether freeing ports are fitted with shutters bars or rails, and give particulars

NONE

Give particulars of freeing port area, etc., on superstructure decks.

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Position and dimensions of superstructure decks, position of superstructure bulkheads and openings, extent and thickness of wood sheathing in wells, position of cargo and coaling hatchways, gangway, cargo and coaling ports, freeing ports, ventilators to spaces below freeboard deck and fully enclosed superstructures, companionways, etc, which affect the freeboard of the ship.



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PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

| Number and description of Hatchway from forward | UPPER DECK | | | BOSNS STORE W.T. HATCH | STEERING ENGINE ROOM W.T. HATCH |
|--|---|----------------------------|----------------------------|------------------------|---------------------------------|
| | No. 1 | Nos. 2, 4 & 5 | No. 3 | | |
| Dimensions of Hatchway | 33'-9" x 20'-0" | 35'-0" x 20'-0" | 20'-0" x 20'-0" | 36" x 36" | 15" x 23" |
| Height above deck | 3'-0" | 3'-0" | 3'-0" | 18" | 15" |
| Thickness of sides | .625 | .625 | .625 | 3/8" | 3/8" |
| Stiffeners Horiz. | 12 x 4 x 1 1/2 x 475 | CHANNEL 1'-11" ABOVE DECK | | | |
| Brackets or Stays | 3" x 3" x 43" WITH 8 BKTS SPACED 10'-0" | | | | |
| Number | 6 | 6 | 3 | | |
| Spacing | 5'-0 3/4" MAX. | 5'-0 3/4" MAX. | 5'-1 3/8" MAX. | | |
| Scantling and Sketch | | | | | |
| Bearing Surface and thickness of carriers or sockets | 8 1/8 sq. ins. | 8 1/8 sq. ins. | 8 1/8 sq. ins. | | |
| Number | | | | | |
| Spacing | | | | | |
| Unsupported lengths | | | | | |
| Scantling and Sketch | | | | | |
| Bearing Surface and thickness of carriers or sockets | | | | | |
| Material | WOOD | WOOD | WOOD | STEEL | STEEL |
| Thickness | 2 1/2" | 2 1/2" | 2 1/2" | 30" | 1/4" |
| How Fitted | F & A | F & A | F & A | HINGED WT. | HINGED WT. |
| Bearing Surface | 3" | 3" | 3" | COVER SECURED | COVER SECURED |
| Spacing of Cleats | 22 3/4" MIN. 24 9/16" MAX. | 22 3/4" MIN. 24 9/16" MAX. | 22 3/4" MIN. 24 9/16" MAX. | BY 6 - 7/8" BOLTS | BY 6 - 7/8" BOLTS |
| Number of Tarpaulins | 3 | 3 | 3 | | |

Are tarpaulins in good condition and in accordance with rule requirements? Yes

Are lashings provided in accordance with rule requirements? Yes

Are wood fore and afters steel shod at all bearing surfaces? Yes

Are battens and wedges efficient and in good condition? Yes



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