

DISCLOSED

REPORT No. 4266

Rpt. 115

Lloyd's Register of Shipping.

28 1921

Index No. 30342
(For London Office only)

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey PHILADELPHIA
Date of Survey White building
Name of Surveyor E. J. Evans

SUN S.B. Co's No 42. COMPLETE SHELTER DECK VESSEL.

| | | | | | |
|---|--|------------------------------|----------------------------------|--------------------------------|---|
| Ship's Name <u>"PENNSYLVANIA SUN."</u> | Port of Registry and Nationality. <u>PHILADELPHIA.</u> <u>U.S.A.</u> | Official Number. <u>✓</u> | Gross Tonnage. <u>8862.38</u> | Date of Build. <u>1922.</u> | Particulars of Classification. <u>+100 A1. SHELTER Dk. WITH FREEBOARD. CARRYING PETROLEUM IN BULK. (CONTEMPLATED.)</u> |
| Number in Register Book | | | | | |

| | | | | |
|---|-------------------------|---|---|--|
| Registered dimensions from Ship's Register. | LENGTH. <u>480.5</u> | BREADTH. <u>66.0</u> | DEPTH. <u>36.8</u> | UNDER DECK TONNAGE. <u>8800.85</u> |
| Length on LOADLINE. | <u>480.0</u> | MEAN Frame Depth <u>107</u> Rule <u>8</u> <u>27.2 = 45</u> <u>NO C. BATTENS</u> <u>+ 33</u> | Ceiling <u>+ 20</u> Sheer <u>- 106</u> | Peak Tanks } INCLUDED <u>D.B. Aft. + 73.36</u> <u>D.B. For² + 28.00</u> |
| RECTED SIONS. | <u>480.0</u> | <u>65.88</u> | <u>36.89</u> | <u>8902.21</u> |

Efficient of fineness..... 763.
Modification necessary [Para. 4 (a) to (e)]* ✓
Efficient as corrected 763. ✓

{ Stem..... 121.00 } 182.62 ÷ 2 = 91.31 ... Mean 36 | 3.83
{ Sternpost ... 61.62 } 106.
at $\frac{1}{2}$ of the length from { Stem 38.50 } 60.00 ÷ 2 = 30.00 ... Mean
{ Sternpost 21.50 }
al mean Sheer Plotted 54.17
ard mean Sheer [Table, Para. 18] 58.00 Correction
Difference..... 3.83 ÷ 4 = .96
imited as Para. 18 (f) + 1"

in Sheer { At front of bridge house..... ✓
amidships {
a. 18 (e) } At after end of forecastle ✓

in Sheer { ✓ ÷ 2 =
a. 18 (d) }
uncovered Correction

ALLOWANCE FOR DECK ERECTIONS :—
ard, Table C..... ✓
ion for Length, if required (Para. 12, 13, and 14) ✓
ard by Table A, corrected for sheer, and for length, } ✓
if required (Para. 12, 13, and 14)
ice ✓
age as below..... ✓

on for R. Q. Dk. if engine and boiler openings not } ✓
vered by bridge house (Para. 11)
ce for Deck Erections ✓

| | | | |
|---|-------------|-----------------|------------|
| | Length. | Length allowed. | Height. |
| le..... | <u>43.8</u> | | <u>7.6</u> |
| ouse..... | ✓ | | |
| Qr. Dk..... | ✓ | | |
| | ✓ | | |
| otal..... | ✓ | | |
| f Ship..... | ✓ | | |
| ding percentage { 11, 12, 13, or 14) } | ✓ | | |

DARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Iron) Deck :—
Fresh Water Line above centre of Disc
Indian Summer Line " " "
Winter Line below " " "
Winter North Atlantic Line " " "

Moulded Depth as measured TO SHELTER Dk. 37.0 ✓
WOOD DECK LESS STRINGER 3
Addition for Keel below base line 36.9 ✓
for draught record... 2.58 inches.

CORRECTION FOR LENGTH.
Length of Ship on Loadline..... 480.0 ✓
Length in Table 441.0 ✓
Difference 39.0 ✓
Correction for 10ft., Table A. 1.7 Table C. ✓
× Difference divided by 10 6.63 (if required.)
If $\frac{1}{10}$ ths length covered divide by 2 ✓ + 6 $\frac{3}{4}$

CORRECTION FOR IRON DECK.
Proportion covered, if less than $\frac{7}{10}$ ths length covered ✓
Thickness of usual wood deck, less stringer ALLOWED IN REDUCED MOULDED DEPTH

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... 64.75 ✓
Round of Beam EQUVALENT 16.66 ✓
Normal round EQUAL TO 16.19 SEE SKETCH.
Difference 47 ÷ 2 = 23 ✓
Proportion of Deck uncovered (Para. 19) ✓ - $\frac{1}{4}$

Freeboard, Table A 10.3 $\frac{1}{2}$ ✓
Correction for Sheer + 1 ✓
Correction for Length + 6 $\frac{3}{4}$ ✓
Allowance for Deck Erections ✓
Correction for Round of Beam..... - 4 ✓
Correction for fall in Sheer (if any)..... ✓
Correction for Iron Deck (if required) ✓
Additions for non-compliance with provisions of }
Para. 11 (d) and (e) † } ✓
Other Corrections (if any) ✓

Winter Freeboard 10.11 ✓
Summer Freeboard 10.4 $\frac{1}{2}$ ✓
Indian Summer Freeboard 9.10 ✓
N.A. Winter Freeboard ✓

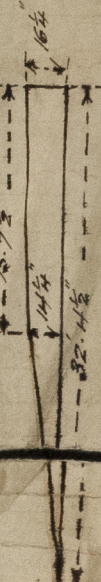
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the ~~wood~~ or iron deck with side. + 1 $\frac{1}{2}$

Winter Freeboard from deck line 11.0 $\frac{1}{2}$ ✓
Summer " " " 10.6 ✓
Indian Summer " " " 9.11 $\frac{1}{2}$ ✓
N.A. Winter " " " ✓
SHELTER Dk. 10.6 ✓

State dimensions of freeing port, area on back of this form.
The Surveyor should state whether the fall in sheer as reported is measured relatively to the line of keel or to the water line. If measured relatively to water line, state at time of survey, and also the usual draft forward and aft should be reported.

NOTE.—If the depth is measured when vessel is afloat, the details of measurement should be reported.

NOTE.—The round of beam should be reported on the full breadth of vessel at the gunwale.



Lloyd's Register

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Do all the Frames extend to the top height in the Poop? *Confidential Framing* Raised Quarter Deck? *Confidential Framing* Bridge House? *Yes* Forecastle? *Yes*

To what height do the Reverse Frames extend?

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

Is the Poop or Raised Quarter Deck connected with the Bridge House? Has the Bridge House an efficient Bulkhead at the fore end?

Give particulars of the means for closing the openings in Bulkhead

What is the thickness of the Bridge Front plating? and Coaming plate?

Give scantlings and spacing of the Stiffeners

Are bracket plates fitted at each end of the Stiffeners? Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?

Has the Bridge House an efficient Iron Bulkhead at the after end?

How are the openings closed?

Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Steel sideboards*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Covered by wing houses on Shelter Deck.*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *Yes*

Give thickness of plating; scantlings and spacing of Stiffeners *Plating 30 Stiffeners 7L 4x3x32 spaced 30" apart.*

What is the height of the exposed Casings? *8' 0"* Are suitable means provided for closing all openings in them in bad weather? *Yes*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:— *Yes*

| Position and Size. | No. 1 - 11' 0" x 17' 0" | | No. 2 - 12' 0" x 4' 0" | | No. 3 - 6' 0" x 8' 6" | | Ship. | Rule. | Ship. | Rule. |
|-------------------------------|-------------------------|-------|--|-------|--|-------|-------|-------|-------|-------|
| Item. | Ship. | Rule. | Ship. | Rule. | Ship. | Rule. | | | | |
| COAMING. | | | | | | | | | | |
| Height above top of DECK | 30" | | 30" | | 15" | | | | | |
| Thickness | | | | | | | | | | |
| Sides | 44 | ✓ | 37 | ✓ | 40 | ✓ | | | | |
| Ends | 44 | | 37 | | 40 | | | | | |
| SHIFTING BEAMS OR WEB PLATES. | | | | | | | | | | |
| Number | | | | | | | | | | |
| Section and Scantlings | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Material | | | | | | | | | | |
| * FORE AND AFTERS. | | | | | | | | | | |
| Number | 3 | | Steel Stiffed Covers secured by drop bolts spaced about 18" apart. | | Steel bolted plate covers .40 thick efficiently stiffened Bolts spaced about 3 3/4" apart. | | | | | |
| Section and Scantlings | Plate 11" x 3/4" | | | | | | | | | |
| Material | Angles 3 x 3 x 38 | | | | | | | | | |
| HATCHES Thickness | 3" | | Covers .38 thick. | | about 3 3/4" apart. | | | | | |
| Remarks | Good | | | | | | | | | |

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? Strake between Main and Bridge Sheerstrakes?

Delete the words { The Crew ~~are~~ are not, berthed in the bridge house.

that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, ~~unsatisfactory~~ satisfactory.

Length of Bulwarks in well

Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

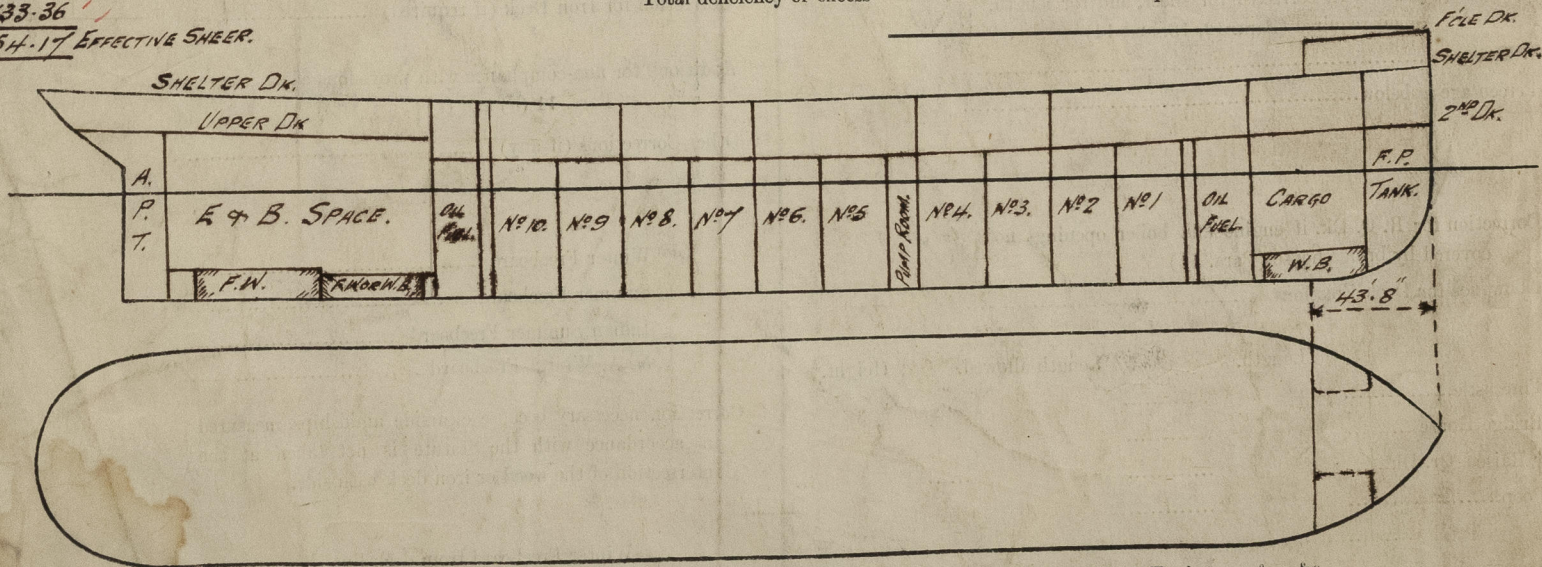
Ft. Tenths. Ft. Tenths. No. Freeing Ports (each side of vessel) = Sq. ft.

Total deficiency or excess = Sq. ft.

SHELTER DK. SHEERS.

| | | | |
|----------|----------|---|--------|
| STEEL | 121.00 | 1 | 121.00 |
| 1/2" | 38.50 | 4 | 154.00 |
| 1/4" | 3.75 | 2 | 7.50 |
| 3/8" | .00 | 4 | .00 |
| 1/2" | .00 | 2 | .00 |
| 3/8" | .00 | 4 | .00 |
| 1/4" | 1.62 | 2 | 3.24 |
| 1/8" | 21.50 | 4 | 86.00 |
| S. Post. | 61.62 | 1 | 61.62 |
| | 8/433.36 | | |
| | 54.17 | | |

EFFECTIVE SHEER.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, etc., etc.

State any special features in the construction of the Vessel *This is a sister vessel to the S.S. "AGWINEX".*

Report No. 4164. The signed request form and curves of displacement and tons per inch immersion are forwarded herewith.

Owners *Sun Company, Inc.*

Address *Philadelphia, Pa.*

Fee *\$110.00* Will be charged with first entry. Received by me *E. J. Evans*