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REC'D NEW YORK JAN - 6 1922

REPORT No 4297

Index No. 30378  
(For London Office only.)

# Lloyd's Register of Shipping

JAN 24 1922

## SURVEYS FOR FREEBOARD - STEAM SHIPS.

REGULARS 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 While building.  
Name of Surveyor E. J. Evans.

SUN S. B. Co., No 43.

COMPLETE SHELTER DECK VESSEL.

Particulars of Classification.  
+100A1 SHELTER DECK WITH FREEBOARD. CARRYING PETROLEUM IN BULK. (CONTEMPLATED)

Ship's Name "DELAWARE SUN"  
Port of Registry and Nationality. PHILADELPHIA. U. S. A.  
Official Number. ✓  
Gross Tonnage. 9100 APPROX.  
Date of Build. 1922.

| Registered Dimensions from Ship's Register. | LENGTH.      | BREADTH.     | DEPTH.       | UNDER DECK TONNAGE. |
|---|--------------|--------------|--------------|---------------------|
|   | <u>480.5</u> | <u>66.0</u>  | <u>36.8</u>  | <u>8813.90</u>      |
| Length on LOADLINE.                         | <u>480.0</u> |              |              |                     |
| RECTED DIMENSIONS.                          | <u>480.0</u> | <u>65.88</u> | <u>36.89</u> | <u>8911.46</u>      |

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

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

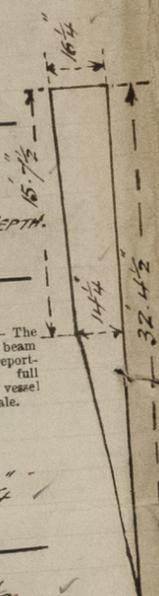
CORRECTION FOR LENGTH.

|  |                            |
|--|----------------------------|
| Length of Ship on Loadline.....                    | <u>480.0</u>               |
| Length in Table .....                              | <u>441.0</u>               |
| Difference .....                                   | <u>39.0</u>                |
| Correction for 10ft., Table A. ....                | <u>1.7</u> Table C. ✓      |
| × Difference divided by 10 .....                   | <u>6.63</u> (if required.) |
| If $\frac{1}{10}$ ths length covered divide by 2 ✓ | <u>+6.34</u>               |

CORRECTION FOR IRON DECK.  
Proportion covered, if less than  $\frac{1}{10}$ 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 ..... 16.66  
Normal round. EQUAL TO..... 16.19 ✓  
Difference ..... .47 ÷ 2 = .23  
Proportion of Deck uncovered (Para. 19) ..... ✓

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



efficient of fineness..... .764  
Modification necessary [Para. 4 (a) to (e)]\*  
efficient as corrected ..... .764  
Rise in Sheer { At front of bridge house..... ✓  
                  { At after end of forecastle..... ✓  
Fall in Sheer { ✓ ÷ 2 =  
                  { Correction  
Length uncovered .....

ALLENANCE FOR DECK ERECTIONS :-  
Freeboard, Table C..... ✓  
Correction for Length, if required (Para. 12, 13, and 14) ..... ✓  
Freeboard by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) } ✓  
Difference ..... ✓  
Percentage as below..... ✓

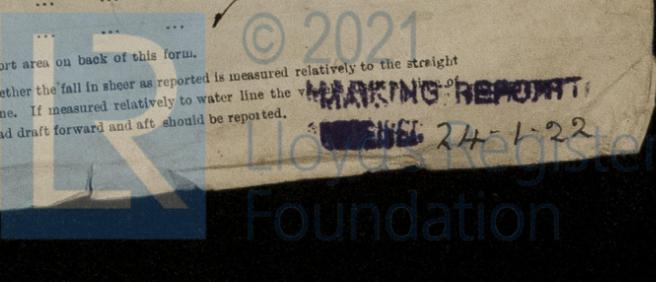
|                      | Length.     | Length allowed. | Height.    |
|----------------------|-------------|-----------------|------------|
| Forecastle.....      | <u>43.8</u> | ✓               | <u>7.6</u> |
| Bridge House.....    | ✓           |                 |            |
| Raised Qr. Dk.....   | ✓           |                 |            |
| Op.....              | ✓           |                 |            |
| Total .....          |             |                 |            |
| Length of Ship ..... |             |                 |            |

Corresponding percentage (Para. 11, 12, 13, or 14) ✓  
FREEBOARD 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 " " "

25.1.22

|  |                  |
|--|------------------|
| Freeboard, Table A .....   | <u>10.3 1/2</u>  |
| Correction for Sheer .....   | <u>10.4 1/2</u>  |
| Correction for Length .....  | <u>10.11 1/4</u> |
| Allowance for Deck Erections .....   | ✓                |
| Correction for Round of Beam.....  | <u>10.11</u>     |
| 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 .....   | <u>10.11</u>     |
| Summer Freeboard .....   | <u>10.4 1/2</u>  |
| Indian Summer Freeboard .....  | <u>9.10</u>      |
| N. A. Winter Freeboard .....   | ✓                |
| Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the <u>steel</u> or iron deck with side. | <u>+ 1 1/2</u>   |
| Winter Freeboard from deck line .....  | <u>11.0 1/2</u>  |
| Summer " " " " .....   | <u>10.6</u>      |
| Indian Summer " " " " .....  | <u>9.11 1/2</u>  |
| N. A. Winter " " " " .....   | ✓                |
| Steel (Iron) Deck :-   | <u>10.6</u>      |
|  | <u>7/4</u>       |
|  | <u>6 1/2</u>     |
|  | <u>6 1/2</u>     |

\* If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.  
† In vessels obtaining an allowance for deck erections under Para. 11 where the sheer draught amidships the height of the R.Q.D. is to be taken from the level of the top of the amidships beam.  
‡ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and sternpost. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and sternpost.



*Longitudinal Framing.*

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

To what height do the Reverse Frames extend? *Longitudinal Framing.*

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 Sashes.*

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 7/8 x 3 x .32 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 PAIRS O.T. HATCHES 6' 0" x 4' 0" |       | No 3 - 5 PAIRS SUMMER TANK HATCHES 9' 0" x 8' 6" |       | Ship. | Rule. | Ship. | Rule. |
|-------------------------------|--------------------------|---------------------------------------|--|-------|--|-------|-------|-------|-------|-------|
|                               | Ship.                    | Rule.                                 | Ship.                                      | Rule. | Ship.  | Rule. |       |       |       |       |
| COAMING.                      | Height above top of DECK | 30"                                   | 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                                     |  |       |  |       |       |       |       |       |
|                               | Section and Scantlings   | Plate 11" x .37<br>angled 3 x 3 x .38 |  |       |  |       |       |       |       |       |
|                               | Material                 | Steel                                 |  |       |  |       |       |       |       |       |
| HATCHES Thickness             | 3"                       |                                       |  |       |  |       |       |       |       |       |
| 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.

*SHELTER DK. SHEERS.*

|                        |   |        |
|------------------------|---|--------|
| 57.121.00              | 1 | 121.00 |
| 38.50                  | 4 | 154.00 |
| 3.75                   | 2 | 7.50   |
| .00                    | 4 | .00    |
| .00                    | 2 | .00    |
| .00                    | 4 | .00    |
| 1.62                   | 2 | 3.24   |
| 21.50                  | 4 | 86.00  |
| 61.62                  | 1 | 61.62  |
| 8) 433.36              |   |        |
| 54.17 EFFECTIVE SHEER. |   |        |

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

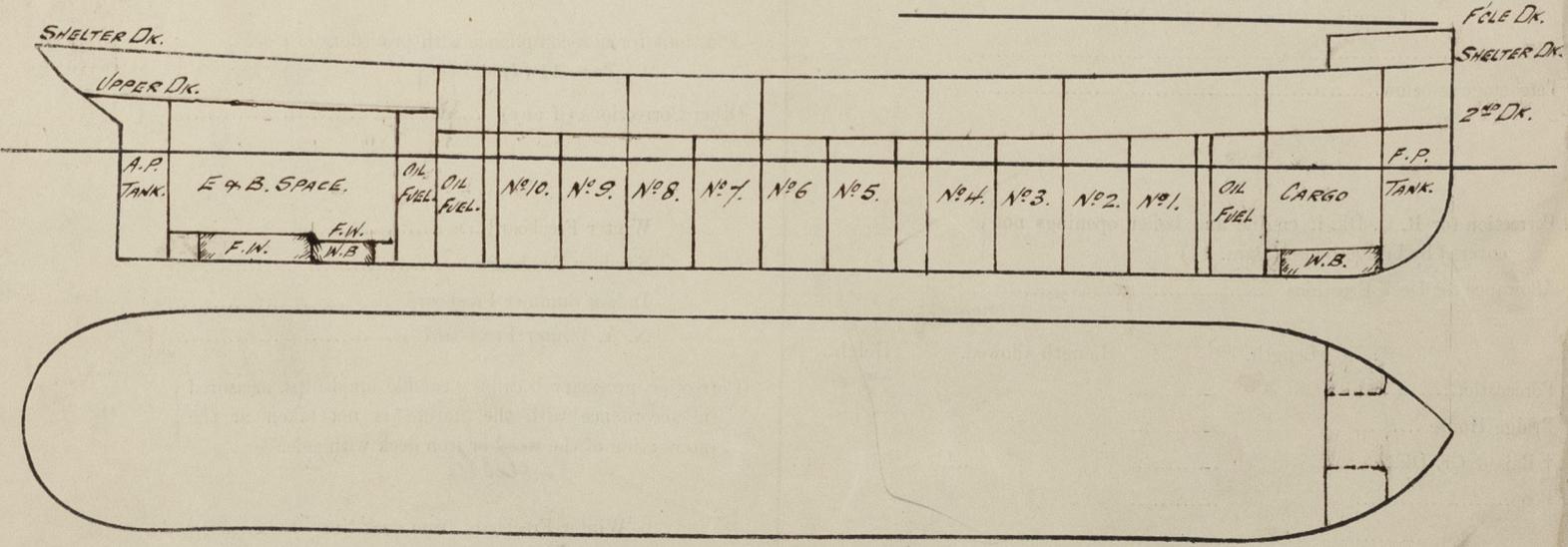
Delete the words  The Crew ~~are~~ are not, berthed in the bridge house.  
that do not apply  The arrangements to enable them to get backwards and forwards from their quarters are, ~~are not~~ satisfactory.

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<br>(each side of vessel) | = | Sq. ft. |
| x           | x           | x   |  |   |         |
| x           | x           | x   |  |   |         |

Total deficiency or excess = \_\_\_\_\_ Sq. ft.



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

State any special features in the construction of the Vessel *This is a similar vessel to the steamer "PENNSYLVANIA SUN", Report No. 4266. The signed request form and curves of displacement and tons per inch immersion are forwarded herewith.*

Owners *Sun Company, Inc.*  
Address *Philadelphia, Pa.*

Fee \$120.00. Will be charged with first entry. Received by me *See Report E. J. Brand.*

