

Sun Ship Historical Society's Ships History Page

Site: www.sunship.org
Pub: 2022.07.19

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Name: MS Pennsylvania Sun

Hull No: 168

Hope you enjoy this 'Ship's History Page'. As always, if you have any additional information, suggestions or corrections, please let me know.

Note 1: While due diligence has been applied in the research of this information, responsibility for any errors is the ultimate responsibility of the end-user.

Note 2: Information has been obtained from various sources to enhance the history of Sun Ship and where possible, sources have been identified

Note 3: Please let us know if there are any errors or information you would like to share with us.

Revision Date: 2022.07.19

Thank You, Dave Kavanagh SSHS davekav@verizon.net

1. Ship's Information:

1.1 Sun Ship Archives[1]

Hull No: 168

Name: MS <u>Pennsylvania Sun</u>

Sailing Port: Philadelphia, PA
Contract: 1937.03.01
Keel: 1937.08.19
Launch: 1938.05.20
Del Promised: 1938.06.15
Delivery: 1938.07.13

Yard/Shipway: CY/1 Time-on-Ways: 275D Time-Wet-Basin:54D Time-Total 329D Length: 521'0" Breadth: 70'0" Depth: 40'0" Tons DWT: 17,870 Type: Tanker Propeller:

Propulsion: Sun Doxford-5 Cyl. HP: 7,200 (See Note 1)

Speed Knots: 14

Class: Lloyds/ABS

Draft: N/A Cap. BBLs: 157,248

Sponsor: Miss Mary C. Pew

Owner: Sun Oil Co.
ON Number: 237658
USMC Hull No: 7578

Note 1: Ship's HP of 7,200 is shown in the official 'Record of Ships Built by Sun Ship' and is Brake Horsepower at 100 PDM

1.2: Ships Specifics

SSHS: 68 02 168 01[4]

| Sing | gle Screw Tanker | | | |
|-----------------------------------|--|--|--|--|
| Cont. # 168-M/S | S "Pennsylvania Sun" | | | |
| Built on Way # 1 | Built on Way # 1 D.W.T. Tonnage: 17,870 | | | |
| | Owner: Sun Oil Company | | | |
| Sponsor: Miss Mary C. Pew | | | | |
| Keel Laid 8-19-37 | | | | |
| Launched 5-20-38 | | | | |
| Delivered 7-13-38 | | | | |
| Hull Steel | Tons Base Price | | | |
| Plates | Plates 4930 39.55 | | | |
| Shapes | Shapes 661 FRT. 2.80 | | | |
| Total | 5591 42.35 | | | |
| Fabricating Cost P | | | | |
| Total Rivets Driver | n: 242,089 | | | |
| Cost Per Rivet: | Labor .058 Burden .035 | | | |
| Cost Hull | Per Dwt. Eng. Per Dwt. | | | |
| Labor 383,890. | . 21.48 261,542. 14.64 | | | |
| Burden 232, 225. | . 13.00 190,208, 10.64 | | | |
| Mat'l 467,373. | | | | |
| Total 1083,488. | 60.63 1168,179 65.37 Total Per Dwt | | | |
| Labor | Control of the Contro | | | |
| Burden | 645,432. 36.12 422,433. 23.64 | | | |
| Mat'l | 1,183,802. 66.24 | | | |
| Total | 2,251,667. 126.00 | | | |
| Miscellaneous | | | | |
| O. T. Bonus | 7.70443 | | | |
| Hull Extras Errors and Defects | 14,80583 19,483. 1.09 | | | |
| Misc. Credits | | | | |
| Total Cost | 2,293,659. 128.35 | | | |
| Total Sales Price | 2,367,775. 132.50 | | | |
| Profit 3/31/44 | 74,116. 4.15 | | | |
| Contract Price | The same of the sa | | | |
| Extras & Changes | 2,351,875. 131.61 15,90089 | | | |
| Total Sales Price | 2,367,775. 132,50 | | | |
| (Over) | | | | |

SSHS: 68 02 168 02^[4]



1: Selected text and photos from:

Marine Engineering and Shipping Review

Oct. 1938 Edition

SSHS: 454 24 2714-2721^[8]

Pennsylvania Sun is the largest motor tanker so far built in the United States and is propelled by the largest marine Diesel engine ever built in this country. The Ship's entire tank system is entirely welded with only the bow and stern riveted.

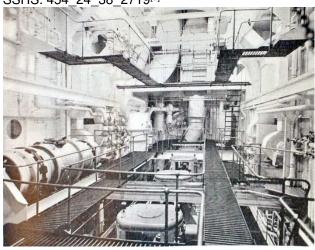
The cargo space is divided into 10 large tanks along the centerline with 9 wing tanks on each side, making a total of 28 cargo tanks.

The propelling engine is a Sun-Doxford unit, of the welded frame type, having five cylinders with a diameter of 31 inches and a combined stroke of 86 inches. Rated 6,000 brake horsepower at 90 revolutions per minute and 7,200 brake horsepower at 100 revolutions per minute.

The engine drives, through a Kingsbury thrust, a 4-bladed bronze propeller, designed by Dr. S. E. Slocum, having a diameter of 19 feet 6 inches and an effective pitch of 15 feet 6 inches at a radius of 6 feet 6 inches. This propeller and the spare each have a finished weight of 31,500 pounds and were made by the American Manganese Bronze Company

View of the engine room showing the Sun-Doxford's Diesel engine cylinder-heads.

SSHS: 454_24_38_2719[8]



2. Ship's Ownership - Disposition:[2]

| <u>Name</u> | <u>Date</u> | <u>Owner</u> |
|---------------------------|-------------|--------------------|
| Pennsylvania Sun | 1938 | Sun Oil Co. |
| Stephanitor | 1955 | Schlussel-Reederei |
| | | D.Oltmann & Co |
| Stephanitor | 1960 | Schlussel-Reederei |
| Conversion to ore carrier | | D.Oltmann & Co |
| | | |

Disposition:

Location: La Spezia, Italy

Date: 1963

3. Artifacts:^[1]
Not Applicable

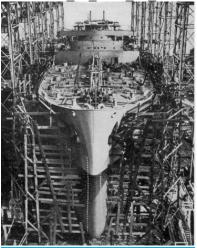
4. Ship's Thumbnail History

1938

4.1: Ship nearing completion on #1 Shipway

Date: 1938

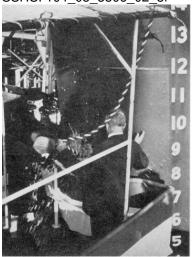
SSHS: 104 05 3806 02 1r^[5]



4.2: Ship being christened by Miss Mary C. Pew

Date: 1938.05.20

SSHS: 104_05_3806_02_3r^[5]



4.3: Photo of sponsor, Miss Mary C. Pew

Date: 1938.05.20

SSHS: 104 05 3806 02 2r^[5]



4.4: Ship sliding down No. 1 Shipway into the

Delaware River. Date: 1938.05.20

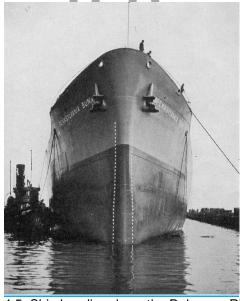
SSHS: 104 05 3806 02 5r^[5]



4.4: Tugs moving ship into wet basin after launching.

Date: 1938.05.20

SSHS: 104 05 3806 02 4r^[5]



4.5: Ship heading down the Delaware River on trial

Date: 1938.MM.DD SSHS: 162_03_09_1r^[1]



1942:[3]

U-boat, Merchant Marine, Battle of the Atlantic, World War II (WWII)

Attack on American tanker, SS Pennsylvania Sun On July 15, 1942, German (Type VIIC) U-boat, U-571, attacked American motor tanker SS Pennsylvania Sun off Key West, Florida. The survivors were picked-up by USS Dahlgren (DD-187). Repairs were completed to Pennsylvania Sun in 1943, and she served for the next 20 years. Australian Sunderland aircraft sank the German submarine on January 28, 1944, in the North Atlantic, west of Ireland.

Image: 80-G-61597: SS Pennsylvania Sun burning after torpedoing by U-571 on July 15, 1942. Official U.S. Navy Photograph, now in the collections of the National Archives.

1945:[1]

Our Yard's Oct, 1945 edition SSHS: 705_4510_15_2r^[1]

"The trials of wars have tested every atom of the M.S. *Pennsylvania Sun* and found her staunchhearted and true. She has become the symbol for the stamina of the all-welded tanker.

Since her launching on May 20, 1938, at the Sun Shipbuilding & Dry Dock Co., the M.S.

Pennsylvania Sun has sailed more than 550,000 miles with essential cargoes of crude and navy fuel oil. The power she delivered to our Allies under lendlease-to our Armed Forces since Pearl Harbor-is staggering-especially to our enemies! Torpedoed in the Caribbean Sea in July, 1942-while on her third mission for the War Shipping Administration-her entire superstructure w as gutted by fire. Abandoned by her crew, she would not die Her indomitable spirit would not go under. Her crew reboarded her, fought the fire, repaired the damage sufficiently to get to land. There, temporary repairs were made and, then completely controlled from the after-end, she made an ocean trip of hundreds of miles under her own power to the Sun Shipbuilding yard at Chester. The M.S. Pennsylvania Sun then was repaired and continued in her vital war work"

SSHS: 705 4510 15 2r[1]



View of 'Pennsylvania Sun' pierside at Sun Ship for permanent repairs. Note temporary repairs made to keep the ship from breaking in half on her return voyage to Sun Ship.

168 74319 022r^[7]



1948:^[6] Chester Times 1948.08.27

"River Collision-Locked together in the middle of the Delaware off Marcus Hook Thursday morning were the freighter 'K. I. Luckenbach' and the Sun Oil Company tanker 'Pennsylvania Sun. It took four tugs almost three hours to separate the vessels. One of the tugs, the *Triton*, from Philadelphia is shown in the photograph's foreground." (Our thanks to Dave Boone for sending the original newspaper clipping) Chester Times Newspaper SSHS: 329 19480827 021[1]



1955:^[8]

Marine Reporter

Nov. 1955

SSHS: 454 161 5511^[8]

"In line with its tanker fleet modernization plans, Sun Oil Company has sold the 17-year-old M.S.

Pennsylvania Sun. The 132,000-barrel motorship, survivor of World War II, was bought by the Bremen, Germany partnership of Schlussel Reederei-D. Oltmann & Company.

5. Sources:

- 1: SSHS Archives
- 2: Miramarshipindex
- 3: www.history.navy.mil
- 4: VP Robert Haig Collection
- 5: Charles Morris Collection
- 6. Dave Boone Collection
- 7: Hagley Museum and Library
- 8: Independence Seaport Museum

Note: Sun Ship's Shipway Designations:

SY: South Yard 9 thru 12 CY: Central Yard 1 thru 8 NY: North Yard 13 thru 20 4Y: No.4 Yard 21 thru 28