

REPORT of SURVEY for REPAIRS, &c.

Date of writing Report 11th Jan 1923 When handed in at Local Office 11th Jan 1923 Port of Philadelphia

No. in Survey held at Chester, Pa. Date, First Survey 11th Nov, 1922 Last Survey 5th Jan 1923

Reg. Book. 63258 on the Wood, Iron Steel S.S. "J.N. PEW" (No. of Visits 35) Master

TONNAGE:- Built at Chester, Pa. By whom Sun S.B. Co. When 1921 MONTH 7
GROSS 9074 Owners Sun Company, Inc. Port belonging to Philadelphia
UNDER DK. 8530
NET 6473 Owners' Address

Surveyed Afloat or in Dry Dock? Both Name of Dock Sun S.B. Co. Destined Voyage San Pedro

WB=CellDBorDBa feet; uE&B feet; f feet; }
total capacity tons. FPT tons; APT tons; MT feet tons. }
N.B.—All alterations in the existing records should be underlined.

If the Vessel has Water Ballast Tanks, state whether the manhole covers have been removed, and the insides of the tanks examined. Also state the amount of deterioration (if any) found in the thicknesses of the floors, framing, girders, and of the inner bottom plating, especially in the boiler space.

Last Report, No. 1371 Port PAK

(Periodical Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be summarised in the form shown below. Whenever the replacement of Anchors or Chains is reported, the particulars should be clearly stated in the space provided on the back of this form. State also the dates and initials of any letters respecting this case.)

CHARACTER, for Special Survey, Date of last Survey and of Periodical Surveys.	Years Assigned, assigned, expired.	Machinery and Boiler Surveys (including date of N.B., if any).
<u>+100A/ Shelter deck with freeboard. 4.22.</u>	<u>+LMC 7.21.</u>	<u>C.L.</u>
<u>Carrying petroleum in bulk.</u>		
<u>Fitted for oil fuel 7.21. F. above 150°F.</u>		
<u>Society's Freeboard (if assigned) as painted on Ship and now verified</u>	<u>10</u>	<u>6</u> ins.

Damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose and to whom and why they were declined? Report made. Was a damage report made by anyone else? If so, by whom? Salvage Assn

PAIRS, OR EXAMINATION AS PER RULE, FOR Damage stated to have been caused by an explosion of gas in No. 4 summer tank, port side, while the vessel was on the pontoon of the Sun S.B. Co, Chester, Pa., on the 11th Nov, 1922, for painting and minor repairs.

Now done :- Vessel on pontoon. Bottom and rudder examined. All main cargo & summer tanks, oil fuel tanks, cofferdams, pump room, forward cargo hold & tween decks, forecabin space, E & B spaces, fore and after peaks & tanks, and D.B. tanks in fore hold and under engines & boilers examined. Decks, masts, spars & general equipment, hatches & supports in position, ventilators & coamings, steering gear & connections, windlass and air & sounding pipes examined.

TARY OF DAMAGE REPAIRS :-	Plates.	Frames.	R. Frames.	Floors.	Beams.	Str. Plates.	Dk. Plates.	Other Items :-
Renewed ...	<u>21</u>	<u>9</u>	<u>11</u>		<u>15</u>	<u>9</u>	<u>36</u>	<u>B. KEEL, STR. ANGLES, SIDE GIRDERS, BRACKETS</u>
Removed and Faired or Repaired ...	<u>4</u>	<u>55</u>	<u>3 (DOUBLE)</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>C.L. & TRANS BULK 2nd EXP. TRUNK, HATCHES, M. MAST</u>
Faired or Repaired in place ...	<u>19</u>				<u>4</u>		<u>12</u>	<u>FA GANGWAY, BRIDGE & BOAT DES. HORSES, S. GEAR</u>

ENT CONDITION OF THE	Stringers	Inner Bottom Plating	State if Tanks have been examined inside	State if Tanks now tested	Bulkheads	Ceiling	Cement or Asphalt (State which.)	Rudder	Steering gear and its connections	Windlass	Have Pumps now been examined and found efficient?	Have Sluice Valves now been examined and found efficient?	Have Watertight Doors now been examined and found efficient?
<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>None</u>	<u>None</u>	<u>None</u>

Dblg. Plates under Sounding Pipes	Engine Room Skylights	Coal Bunkers, Open'gs, Lids, &c.	Scuppers	Cargo Hatchways	Hatches	Planking of Wood Vessels	Caulking	Treenails	Breasthooks & Stemson	Transoms, Pointers, & Crutches ditto	Timbers of Frame at openings ditto	Ditto ditto at other places ditto	Stringers, Clamps & Shelves	Splining
<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>

Copper, or T.M. of Wood Vessels (State if on Felt.)	When put on, Month	Year	Boats	Masts, Yards, &c.	Condition, how ascertained	Sails	Equipment letter	Anchors, No. of	Cables (State if now ranged)	length (on board)	Rule length	Hawser & Warps	Standing & Running Rigging
<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>

General Observations, Opinion as to Class, Recommendation, &c.:-
State clearly whether any and, if so, what alteration is suggested to be made in the existing classification and notification of the vessel in the Register Book consequent upon this survey, thus, for example:—"to remain as now classed in the Register Book without fresh record of Survey," "to remain as classed and to have record of survey 1,15," or "to remain as classed and to have record of survey, 1,15, and the notations of ss No. 1-15 and ptND15, &c."
This vessel is eligible, in our opinion, to remain as classed and to have record of Survey 1, 23.

Fee (per Section 28) £ : :
Damage or Repair Fee (if any) £1500.00
Surveyor's Fee (if any) £ : :
Fees applied for, 11th Jan 1923
Received by me, E. J. Evans
Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York JAN 23 1923
Character Assigned 100A/ Shelter deck with freeboard
Carrying Pet in bulk
Fitted for oil fuel 7.21 F. above 150°F

Is Certificate required? If so, to be sent to

S.S. "J. N. PEW."

Foreward verified.

DAMAGE REPAIRS.

Plates numbered from forward. Bulkheads & Transverses numbered from aft.

Shell. Port Side :- F12, F13, G7, G8, G9, H12, H13, J11, J12, K11, K12, M11, M12 & M13 (14 plates) renewed.

J10 (1 plate) removed, faired & replaced.

E10, E11, F11, F14, H11, H14, J13 & K13 (8 plates) faired in place.

D5, D6 & E4 (3 plates) and 2 lengths of bilge keel, indented in way of bilge blocks, faired in place.

Starb'd Side :- F12, F13, G7, G8, H12, J11 & J12 (7 plates) renewed.

D11, E10 & M12 (3 plates) removed, faired & replaced.

E9, F11, H11, H13, K10, K11, K12 & M11 (8 plates) faired in place.

Shelter Deck. A is centre strake & F is stringer plate.

Stringer Plates, Port Side :- F9, F10, F11 & F12 (4 plates) renewed.

F13 (1 plate) removed, faired & replaced.

Starb'd Side :- F11 & F12 (2 plates) removed, faired & replaced.

Stringer angles part renewed on port & starb'd sides.

Deck Plates :- A10, A11 & A12 (3 plates) renewed.

A9 (1 plate) faired in place.

Port Side :- B9, B10, B11, C9, C10, C11, D8, D9, D10, D11, E8, E9 & E10 (13 plates) renewed.

B12, C8, C12, E6, E7 & E11 (6 plates) faired in place.

Starb'd Side :- B10, B11, C9, C10, D9, D10 & E9 (7 plates) renewed.

E8 (1 plate) removed, faired & replaced.

B9, C11, D8 & E10 (4 plates) faired in place.

Upper Deck. F is stringer plate.

Stringer Plates, Port Side :- F11, F12 & F13 (3 plates) renewed.

Starb'd Side :- F11 & F12 (2 plates) renewed.

Stringer angles part renewed on port & starb'd sides.

Deck Plates, Port Side :- D9, D10, D11, D12, D13, E7, E8, E9 & E10 (9 plates) renewed.

Starb'd Side :- D10, D11, E8 & E9 (4 plates) renewed.

E7 (1 plate) faired in place.

Longitudinals & Brackets (Shell & Deck) and Transverses.

of Main Tank, Port & Starb'd Sides.

Side girder (port side) plate between Bulk'd No 27 & Transverse No 28

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fair in place and top angles renewed.

Longitudinals to Shell :- 6 Pt. & 9 Sd. removed, faird & replaced.

— " — to Upper Dk :- 6 Pt. & 6 Sd. renewed.

— " — to Shelter Dk :- 5 Pt. & 5 Sd. renewed.

Brackets connecting Shell Longs to Bulk^{ds} Nos 27 & 29 :- 7 Pt. & 8 Sd.

renewed. 2 Pt. & 2 Sd. removed, faird & replaced.

Brackets connecting Deck Longs to Bulk^{ds} Nos 27 & 29 :- 22 Pt. & 11 Sd.

renewed.

Transverse Brackets connecting Expansion Trunk to Shelter Dk :-

4 Pt. & 3 Sd. renewed.

Transverse No 28, Port Side :- Upper Dk beam & knee and bracket to

C.L. Bulk^d renewed. Shelter Dk beam & knee and bracket to

C.L. Bulk^d renewed.

No 8 Main Tank, Port & Starb^d Sides.

Side girder (port side) plate between Bulk^{ds} Nos 25 & 27 renewed

complete with top angles, vertical stiffeners & brackets.

Side girder (starb^d side) plate between Bulk^d No 25 & Transverse

No 26 renewed complete with top angles, vertical stiffeners & brackets.

Longitudinals to Shell :- 3 Pt. renewed. 5 Pt. & 8 Sd. removed, faird & replaced.

— " — to Upper Dk :- 6 Pt. & 6 Sd. renewed.

— " — to Shelter Dk :- 5 Pt. & 5 Sd. renewed.

Brackets connecting Shell Longs to Bulk^{ds} Nos 25 & 27 :- 28 Pt. & 16 Sd.

renewed.

Brackets connecting Deck Longs to Bulk^{ds} Nos 25 & 27 :- 22 Pt. & 22 Sd.

renewed.

Transverse Brackets connecting Expansion Trunk to Shelter Dk :-

4 Pt. & 4 Sd. renewed.

Transverse No 26, Pt & Sd :- Web frame & belf bracket, upper

deck beam & knee and brackets connecting beam and

floor plate to C.L. Bulk^d renewed.

Shelter deck beam & knee and bracket to C.L. Bulk^d renewed.

Floor plate between brackets at belfs and C.L. Bulk^d

faird in place and double reverse bars on same removed, faird & replaced.

Vertical web stiffener on C.L. Bulk^d (starb^d side only) renewed.

No 9 Main Tank, Port & Starb^d Sides.

Longitudinals to Shell :- 8 Pt. & 7 Sd. removed, faird & replaced.

— " — to Upper Dk :- 6 Pt. & 6 Sd. renewed.

— " — to Shelter Dk :- 5 Pt. renewed. 5 Sd. removed, faird & replaced.

Brackets connecting Shell Longs to Bulk^{ds} Nos 23 & 25 :- 23 Pt. & 9 Sd.

renewed.

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Brackets connecting Deck Longs to Bulk^{ds} Nos 23 & 25 :- 22 Pt & 11 Sd. renewed.

Transverse Brackets connecting Expansion Trunk to Shelter Dk :- 4 Pt. & 1 Sd. renewed.

Transverse No 24, Port Side :- Web frame & bilge bracket, upper deck beam & knee and bracket connecting beam to C.L. Bulk^d renewed.

Shelter deck beam & knee and bracket to C.L. Bulk^d renewed.

Floor plate between brackets at bilge and C.L. Bulk^d faired in place and double reverse bars on same removed, faired & replaced.

Vertical web stiffener on C.L. Bulk^d and bracket to upper deck beam (starb^d side only) renewed.

No 10 Main Tank, Port Side.

Longitudinals to Shell :- 7 removed, faired & replaced.

" to Upper Dk :- 6 renewed.

" to Shelter Dk :- 2 removed, faired & replaced.

Brackets connecting Shell Longs to Bulk^d No 23 :- 6 renewed.

" " Deck " " " " :- 11 renewed.

Transverse Brackets connecting Expansion Trunk to Shelter Dk :- 4 renewed.

No 3 Summer Tank, Port Side.

Longitudinals to Shell :- 1 removed, faired & replaced.

" to Shelter Dk :- 2 part renewed. 4 faired in place.

Brackets connecting Shell Longs to Bulk^d No 29 :- 4 renewed.

" " Shelter Dk. " " " " :- 6 renewed.

Horizontal Brackets connecting Expansion Trunk to Bulk^d No 29 :- 3 renewed.

No 4 Summer Tank, Port & Starb^d Sides.

Longitudinals to Shell :- 4 Pt & 2 Sd. renewed. 2 Sd. removed, faired & replaced.

" to Shelter Dk :- 6 Pt. & 6 Sd. renewed.

Brackets connecting Shell Longs to Bulk^{ds} Nos 25 & 29 :- 8 Pt. & 4 Sd. renewed.

" " Shelter Dk " " " " :- 12 Pt. & 6 Sd. renewed.

Horizontal Brackets connecting Expansion Trunk to Bulk^{ds} Nos 25 & 29 :- 6 Pt & 3 Sd. renewed.

Transverses Nos 26, 27 & 28 Port and Nos 26 & 27 Starb^d :- Web frame, shelter deck beam & knee and bracket connecting beam to expansion trunk renewed.

No 5 Summer Tank, Port & Starb^d Sides.

Longitudinals to Shell :- 2 Pt. removed. 2 Pt. removed, faired & replaced.

" to Shelter Dk :- 6 Pt. renewed.

Brackets connecting Shell Longs to Bulk^d No 25 :- 4 Pt. renewed.

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Brackets connecting Shelter Deck Rongles to Bulk^{ds} N^{os} 25 :- 6 Pts & 6 Sds renewed.
 Horizontal Brackets connecting Expansion Trunk to Bulk^{ds} N^{os} 25 :- 3 Pts & 3 Sds renewed.

Transverse N^o 22, Port :- Bracket connecting shelter deck beam to expansion trunk renewed.

" N^o 23, Port :- Bracket connecting web frame to upper deck, shelter deck beam & knee and bracket connecting beam to expansion trunk renewed.

" N^o 24, Port :- Web frame, shelter deck beam & knee and bracket connecting beam to expansion trunk renewed.

Centre Line Bulkhead.

Lower plates (Centre Girder) from Transverses N^{os} 24 to 28 renewed, 1 horizontal stiffener renewed and 2 horizontal stiffeners removed, faired & replaced from Bulk^{ds} N^{os} 23 to 27.

Bulkhead plating above centre girder and from Bulk^{ds} N^{os} 23 to 27, including vertical plates at these bulk^{ds}, renewed complete with all horizontal stiffeners & brackets, shelf plates & angles, shelter deck angles and vertical web stiffeners at Transverses N^{os} 24 & 26.

Between the vertical plates at Bulk^{ds} N^{os} 27 & 29 the 3 upper horizontal strakes of plating removed, faired & replaced and all horizontal stiffeners above centre girder removed, 2 renewed and remainder faired & replaced.

Expansion Trunk Longitudinal Bulkheads.

Port Side :- Vertical plate at Bulk^{ds} N^o 21 faired in place and all plating and angles to upper & shelter decks from this plate forward to and including the vertical plate at Bulk^{ds} N^o 29 renewed. Horizontal stiffeners from Bulk^{ds} N^{os} 21 to 29 renewed complete with all bracket connections at Bulk^{ds} N^{os} 23, 25, 27 & 29. Vertical web stiffeners at Transverses N^{os} 24, 26 & 28 renewed.

Starb^d Side :- Lower plate for about 11' 0" aft of vertical plate at Bulk^{ds} N^o 25 renewed. Vertical plate at Bulk^{ds} N^o 25 and all plating and angles to upper & shelter decks from this plate forward to vertical plate at Bulk^{ds} N^o 29 renewed. Horizontal stiffeners from Bulk^{ds} N^{os} 25 to 29 renewed complete with all bracket connections at Bulk^{ds} N^{os} 25 & 27. Vertical web stiffener at Transverse N^o 26 renewed.

Transverse Bulkheads in Main Tanks.

N^{os} 23, 25 & 27 Port Side and N^{os} 25 & 27 Starb^d Side :-

All plating, boundary angles, horizontal stiffeners, vertical web stiffeners & brackets, and angle or tee bar connections to brackets renewed.

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No 29 Port Side :- One vertical web stiffener & face angle removed, faired & replaced. One vertical web stiffener plate faired in place and face angle removed, faired & replaced.

Transverse Bulkheads in Summer Tanks.

No 25 & 29 Port Side and No 25 Starb'd Side :- All plating, boundary angles, horizontal stiffeners, vertical web stiffeners & brackets, and angle bar connections to brackets renewed.

All cargo oil pipes, valves, rods & fittings, heating coils and mothering pipes in tanks overhauled, part renewed & tested.

T. Hatches.

Main Tanks :- No 8 & 9 Port and No 8 Starb'd renewed complete.

No 7 & 10 Port and No 7 & 9 Starb'd removed, repaired & replaced with craming angle to deck renewed.

Summer Tanks :- No 4 Port renewed complete. No 5 Port, craming, deck angle, hinges, dogs & ventilator renewed, hatch cover refitted. No 4 Starb'd removed, repaired & replaced with craming angle to deck and hatch cover renewed.

Standards and lifting gear for hatch covers repaired & part renewed.

Mainmast :- Mast unshipped, lower mast plating part removed, faired & replaced, foundation girders, plate & brackets to shelter deck renewed. Topmast & fittings, and all main rigging renewed and mast refitted. Ventilator extension from fuel oil line, led up mainmast, renewed complete with valves.

Fore & Aft Gangway from Bridge Deck to After Deckhouse :- Renewed complete for a length of about 100'-0" together with steering gear control rods, fuel oil, deck steam & exhaust, heater, sanitary, fire & fresh water pipes, valves & fittings.

at Deck, Port Side :- Stringer plate & angles, face plates, wood deck & covering boards, awning stanchions & jack stays, handrails & stanchions part renewed. Port lifeboat repaired, boat cover and after Winch davit renewed. Wood deck recaulked & payed throughout.

Bridge Deck :- Wood deck recaulked & payed throughout. Face plate at after end on port side faired in place.

Ship Deckhouses :- Wood deckhouse on boat deck repaired & re-fastened. Internal wood work & mouldings, doors & frames, fittings, compasses, telegraphs, telephones, indicators etc, repaired & part renewed.

After Deckhouse :- Wood deck over accommodation & caulked &

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payed throughout.

Upper Deck:- Rails & stanchions, mooring bitts, fairleads, scuppers and minor deck fittings repaired & part renewed. All oil, steam & water pipes with their fittings overhauled, repaired & tested. One steam winch at mainmast renewed and other winches overhauled.

Ladders to main & summer tanks, and to bridge deck repaired & part renewed.

Light glasses in crew's quarters renewed where broken.

Wireless installation overhauled & aeriols renewed.

Riveting and caulking throughout vessel tested, all started rivets renewed and caulking made good.

All removals in way of repairs replaced & made good.

On completion of repairs all main cargo tanks, summer tanks, cofferdams, oil fuel tanks, fore & after peak tanks and S.B. tanks in fore hold and under engines & boilers tested under pressure as per Rules for new vessels.

Bottom cleaned & recoated and all new & repaired work coated as before.

Alterations:- O.T. Bulkhead fitted in N^o 1 summer tank (port & starb^d) over main transverse Bulk^d N^o 12 dividing these tanks into two sections. O.T. Hatch 32" high x 27" dia. fitted to each forward section.

E. J. Evans. Master.