

With or Without Disconnected Erections.

STEEL STEAMER.

THU. MAR 6-1913

Received at London Office.

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No. 1992

1913

Date of completion of report

Survey held at

State if Report is also sent on the Machinery of the Vessel *yes*

Port of *Philadelphia Pa.*

Date, First Survey *13th May 1912*

Last Survey *3rd Feb*

On the (State if Single, Twin, or Triple Screw)

Single Screw Steamer "SANTA CRUZ"

Rig *Schooner*

TONNAGE under

CLASS *100 A.1.*

FEET.

Master *William T. Crossley*

Year of appointment

(1) As Master in service of owner of present vessel—1900
(2) As Master of this vessel—1912

Tonnage Deck

Do. between Tonnage Dk. and 3rd and 4th Dk.

Total under Upper Dk. *4006.43*

Do. of Poop

Do. of R.Q.Dk.

Do. of Bridge House

Do. of Forecastle

Do. of Houses on Dk.

Do. of excess of Hatchways

Do. above Crown of Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage

as cut on Beam

Breadth (greatest moulded) *50.0*

Depth, at middle of length from top of keel to top of upper deck beams at side *28.5*

Transverse Number *78.5*

Length on deck from fore part of stem to after part of stern post *384.0*

Longitudinal Number *30180*

Depth "d," at middle of length (See Secs. 2 & 13) *13.47*

Proportions—Depths to Length—Upper Deck Beam at side to top of keel *10.52*

" Long Bridge Deck Beam at side to top of keel

Destined Voyage *New York*

If Surveyed while Building, Afloat, or in Dry Dock *yes*

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid	No. of Tiers of Beams
<i>384.0</i>	<i>0</i>	<i>0</i>	<i>50.0</i>	<i>0</i>	<i>0</i>	Do. do. do. do. Second Dk. Beams	<i>25.0</i>	<i>0</i>	<i>2</i>	<i>0</i>

Dimensions of Ship per Register, Length *384.0* breadth *50.2* depth *26.6* Moulded depth, ft. *36* ins. *6* To Bridge Dk. Round of Upper Dk. Beam, Actual *12 1/2* ins.

FRAMING.						PILLARS.			
NAME, Angle, or E or L Bars amidships	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	PILLARS, In 'tween Deck, size and spacing	Inches in Ship.	Inches in Ship.	Inches in Ship.
o. in peaks <i>TO MAIN DECK ANGLES</i>	<i>6</i>	<i>3 1/2</i>	<i>36</i>	<i>6</i>	<i>3 1/2</i>	" " Hold	"	"	"
o. in way of Double Bottoms at Solid Floors	"	"	"	"	"	" Quarter 'tween Dks.	"	"	"
" " at intermdt. Bkts.	"	"	"	"	"	" in Hold	"	"	"
ing of Frames from centre to centre amidships from 1/2 length to Collision bulkhead	"	"	"	"	"	Widened Pillars + Steel Centre Line 84" Dimensions as per approved plan			
" " in peaks	"	"	"	"	"				
VERSED FRAME, Angles (N.A.E.T. PEAK)	<i>3 1/2</i>	<i>3</i>	<i>36</i>	<i>3 1/2</i>	<i>3</i>	KEELSONS & STRINGERS.			
Do. in way of Double Bottoms at Solid Floors	"	"	"	"	"	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercostal Plate	Inches in Ship.	Inches in Ship.	Inches in Ship.
" " at intermdt. Bkts.	"	"	"	"	"	Rider Plate	"	"	"
AMING, depth of girder (N.A.E.T. PEAK)	<i>6</i>	"	"	<i>6</i>	"	Flat Plate Keel Angles	"	"	"
DOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	"	"	"	"	"	Horizontal Plates on Floors	"	"	"
" in way of Engine and Boiler Spaces	"	"	"	"	"	Angles or Bulb Angles	"	"	"
" thickness at the ends of vessel	"	"	"	"	"	SIDE KEELSONS, Number	"	"	"
" depth at 1/2 the half breadth, as per Rule	"	"	"	"	"	Angles or Bulb Angles	"	"	"
" height extended at the Bilges	"	"	"	"	"	Plate above floors, for length	"	"	"
DOORS in Cell. Double Bottoms	"	"	"	"	"	Intercostal Plate, for length	"	"	"
" state if flanged (top & bottom)	"	"	"	"	"	Attached to outside Plating with Angle	"	"	"
" Spacing of Solid floors	<i>1/2</i>	<i>50</i>	<i>42</i>	<i>50</i>	<i>50</i>	BILGE KEELSON, Angles	"	"	"
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	<i>3 1/2</i>	<i>3 1/2</i>	<i>50</i>	<i>3 1/2</i>	<i>3 1/2</i>	Intercostal Plate for length	"	"	"
" Angles, Top	<i>1/6</i>	<i>6</i>	<i>44</i>	<i>6</i>	<i>44</i>	Attached to outside Plating with Angle	"	"	"
" Bottom	<i>1/5</i>	<i>5</i>	<i>44</i>	<i>5</i>	<i>44</i>	SIDE STRINGERS, Number	"	"	"
" to Floor TRANSVERSES	"	"	"	"	"	Angle	"	"	"
Brackets at intermdt. frmg., width & thknss	<i>one</i>	<i>38</i>	<i>one</i>	<i>38</i>	<i>38</i>	Intercostal Plate, for length	"	"	"
SIDE GIRDERS, number on each side & thickness	<i>not</i>	<i>flanged</i>	"	"	"	Attached to outside plating with Angle	"	"	"
" state if flanged (top and bottom)	<i>3 1/2</i>	<i>3 1/2</i>	<i>40</i>	<i>3 1/2</i>	<i>40</i>	Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	<i>59</i>	<i>64</i>	<i>59</i>
" Angles (top and bottom)	<i>3</i>	<i>3</i>	<i>38</i>	<i>3</i>	<i>38</i>	" " " " (br'dth & thickness (in way of Bridge)	<i>59</i>	<i>44</i>	<i>59</i>
" to Floor TRANSVERSES	<i>39</i>	<i>46</i>	<i>39</i>	<i>46</i>	<i>46</i>	" " " " (Angle clear of Bridge)	<i>5 x 5</i>	<i>68</i>	<i>5 x 5</i>
MARGIN PLATE, depth (exclusive of flange) and thickness	<i>3 1/2</i>	<i>3 1/2</i>	<i>46</i>	<i>3 1/2</i>	<i>46</i>	" " Tie Plate at sides of Hatchways	"	"	"
" Angles to Outside Plating	<i>3 1/2</i>	<i>3 1/2</i>	<i>46</i>	<i>3 1/2</i>	<i>46</i>	" Deck * Steel, for FULL lng.	<i>54.44.36.34</i>	<i>54.44.36.34</i>	<i>54.44.36.34</i>
" Floor TRANSVERSES	<i>3 1/2</i>	<i>3 1/2</i>	<i>46</i>	<i>3 1/2</i>	<i>46</i>	" Thickness (clear of Bridge)	<i>44 TO 36</i>	<i>44 TO 36</i>	<i>44 TO 36</i>
Brackets at intermdt. frmg., width & thknss	<i>40</i>	"	<i>40</i>	"	<i>40</i>	" (in way of Bridge)	"	"	"
Height of Outside Brackets above at bilge	"	"	"	"	"	" Wood Deck. Material & thickness	<i>60</i>	<i>38</i>	<i>60</i>
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	<i>42</i>	<i>50</i>	<i>42</i>	<i>50</i>	<i>50</i>	Second Deck Stringer Plate, br'dth & thickness	<i>3 1/2 x 3 1/2</i>	<i>46</i>	<i>3 1/2 x 3 1/2</i>
" in Engine and Boiler space	<i>400</i>	<i>870</i>	<i>400</i>	<i>870</i>	<i>870</i>	Angles on ditto, No. ONE	"	"	"
" Remainder in Holds	<i>40</i>	<i>70</i>	<i>34</i>	<i>40</i>	<i>34</i>	Tie Plates outside Hatchways	"	"	"
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	"	"	"	"	"	Deck * Material and thickness	<i>34</i>	<i>38</i>	<i>34</i>
" In way of Long Bridge	"	"	"	"	"	Wood Deck. Material & thickness	<i>34</i>	<i>38</i>	<i>34</i>
" Spacing	<i>6</i>	<i>3 1/2</i>	<i>35</i>	<i>6</i>	<i>3 1/2</i>	Third Deck Stringer Plate, br'dth & thickness	<i>3 1/2 x 3 1/2</i>	<i>42</i>	<i>3 1/2 x 3 1/2</i>
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	"	"	"	"	"	Angles on ditto, No. ONE	"	"	"
" Spacing	<i>24</i>	"	<i>24</i>	"	<i>24</i>	Tie Plates outside Hatchways	"	"	"
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	"	"	"	"	"	Deck * Material and thickness	<i>30</i>	<i>30</i>	<i>30</i>
" Angles on upper edge	"	"	"	"	"	Fourth and Fifth Deck Stringer Plate, breadth & thickness	"	"	"
" Spacing	"	"	"	"	"	" Angles on ditto, No.	"	"	"
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	"	"	"	"	"	" Tie Plates outside Hatchways	"	"	"
" Angles on upper edge	"	"	"	"	"	" Deck. Material & thickness	<i>34</i>	<i>34</i>	<i>34</i>
" Spacing	"	"	"	"	"	Poop Deck Stringer Plate, breadth & thickness	<i>3 1/2 x 3 1/2</i>	<i>34</i>	<i>3 1/2 x 3 1/2</i>
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	"	"	"	"	"	Angle on ditto	"	"	"
" Angles on upper edge	"	"	"	"	"	Tie Plates	"	"	"
" Spacing	"	"	"	"	"	Deck. Material and thickness	<i>30</i>	<i>30</i>	<i>30</i>
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	"	"	"	"	"	Bridge Deck Stringer Plate, br'dth & thickness	<i>53</i>	<i>54</i>	<i>53</i>
" Angles on upper edge	"	"	"	"	"	Angle on ditto	<i>5 x 5</i>	<i>58</i>	<i>5 x 5</i>
" Spacing	"	"	"	"	"	Tie Plates	"	"	"
	"	"	"	"	"	Deck. Material and thickness	<i>42 TO 38</i>	<i>42 TO 38</i>	<i>42 TO 38</i>
	"	"	"	"	"	Forecastle Deck Stringer Plate, br'dth & th'kns	<i>34</i>	<i>34</i>	<i>34</i>
	"	"	"	"	"	Angle on ditto	<i>3 1/2 x 3 1/2</i>	<i>34</i>	<i>3 1/2 x 3 1/2</i>
	"	"	"	"	"	Tie Plates	"	"	"
	"	"	"	"	"	Deck. Material and thickness	<i>38 TO 30</i>	<i>38 TO 30</i>	<i>38 TO 30</i>

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.										RIVETING.																		
										AMIDSHIPS.		ENDS.		AMIDSHIPS.		ENDS.		Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.		Rivets in Brackets to Bulkheads.						
										In Ship.		In Ship.		Per Rule or as approved.		Per Rule or as approved.		Diam. Spacing.		Inches.		Number. Diameter.						
										In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.						
Framing of 1 2 3 Channels																												
Frames in Bridge 'tween Decks										6	3 1/2	35	6	3 1/2	35	6	3 1/2	35	6	3 1/2	35	7/8	5/4	7/8 rivets 6 Diars	5	7/8		
Frames from Uppermost Continuous Deck										6	3 1/2	35	6	3 1/2	35	6	3 1/2	35	6	3 1/2	35	7/8	5/4	4 3/8 for 10 rivets 6 diars	5	7/8		
Framing from Awning Shelter Upper Deck to Margin Plate.										No. 1	6	3 1/2	35	6	3 1/2	35	6	3 1/2	35	6	3 1/2	35	7/8	5 1/4	4 3/8	6 diars	5	7/8
										" 2	6	3 1/2	35	6	3 1/2	35	6	3 1/2	35	6	3 1/2	35	7/8	5 1/4	4 3/8	6 diars	6	7/8
										" 3	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	7/8	5 1/4	4 3/8	6 diars	6	7/8
										" 4	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	7/8	5 1/4	4 3/8	6 diars	6	7/8
										" 5	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	7/8	4 3/8	4 3/8 throughout	8	7/8	
										" 6	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	7/8	4 3/8	3 1/2 for 10 rivets 5 diars	8	7/8	
										" 7	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	10	3 3/8	37 1/2	7/8	4 3/8	3 1/2	5 diars	8	7/8
										" 8	10	3 1/2	50	10	3 1/2	50	10	3 1/2	50	10	3 1/2	50	7/8	4 3/8	3 1/2	5 diars	8	7/8
										" 9	7	3 7/16	43	10	3 1/2	50	7	3 7/16	43	7	3 7/16	43	7/8	4 3/8	3 1/2	5 diars	6	7/8
										" 10	7	3 7/16	43	10	3 1/2	50	7	3 7/16	43	7	3 7/16	43	7/8	4 3/8	3 1/2 for 4 rivets 5 diars	6	7/8	
										" 11															D°	D°	6	7/8
										" 12																D°	D°	6
Spacing of Longitudinal Frames										Amidships 30				30				9ft 27 + 30										
Double Bottoms										Tank Top Longitudinals		7		3 35 35		7		3 35 35		7/8		4 3/8						
										Bottom		7		3 7/16 43		7		3 7/16 43		7/8		4 3/8						
Spacing of Longitudinals										Amidships		✓		30		✓		30		✓		9ft 27 + 30		✓				
										At Ends...		✓		✓		✓		✓		✓		✓						
Transverses.																												
In Bridge 'tween Decks										Depth and Thickness		15		40 15		40 15		40 15		40								
										Face Angles CHANNELS		8		3 1/2 50		8		3 1/2 50		8		3 1/2 50						
										Lugs to Shell TOGGLED		3 1/2		3 1/2 38		3 1/2 3 1/2 38		3 1/2 3 1/2 38		7/8		4 3/8						
In Awning, Shelter or Upper 'tween Decks.										Depth and Thickness		18		40 18		40 18		40 18		40								
										Face Angles CHANNELS		10		3 1/2 50		10		3 1/2 50		10		3 1/2 50						
										Lugs to Shell TOGGLED		3 1/2		3 1/2 38		3 1/2 3 1/2 38		3 1/2 3 1/2 38		7/8		4 3/8						
In Hold.										Depth and Thickness		22		48 22		48 22												

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 30.83 ft., R.Q.D. ☒ ft., Bridge 22.0 ft., Forecastle 39.9
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ☒

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given in feet and tens). When the vessel is fitted with a deck of iron or steel, the material of the deck should appear in the Register Book) *Two decks steel*

Official No. *210888*; Signal Letters *L.C.S.M.* State if Machinery is fitted aft *No*

How are the surfaces preserved from oxidation? Inside *Bitumen, Cement and Paint* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors. <i>Cellular</i>					
Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Ca. Tons.
Double bottom, aft,	130	358.3	Fore peak tank,	✓	31.1
Double bottom, under Engines and Boilers,	46	166.0	After peak tank,		
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,		
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,		
Double bottom, forward,	160	463.7	Other tanks, if fitted,		
	Total capacity of double bottom	988.0	(If necessary, furnish further information by sketch.)		
State whether the above have been tested as required by the Rules. <i>yes</i>					

Order for Special Survey No. 20

Date 2nd March 1912

No. 393 in builder's yard

Surveyor's Signature

David Villar/

Lloyd's Regi
Foundation