

## STEEL STEAMER OF MOTORSHIP.

11 MAY 1927

Received at London Office

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *Yes*

Date of completion of report

Port of *Glasgow*No. *46631*Survey held at *Glasgow*Date First Survey *25th Sept 1925*Last Survey *6th May*

1927

On the

(State if Machinery fitted Aft and if Single, Twin or Triple Screw)

T.S.S. "AVALONA"

(Machinery Amidships)

State Type

(Full Scantling, Complete Superstructure with or without Tonnage Openings)

*Full Scantling*

State Type of Erections

*Prop. Bridge*

TONNAGE under Tonnage Deck..

*9314.15*CLASS *100A1*State if with freeboard as condition of Class *Yes*Built at *Glasgow*Launched *December 1926* Yard No. *575*Builders *John Brown & Co. Ltd.*Owners *Blue Star Line (1920)*

Managers

(Where necessary to be entered in Reg. Book.)

Residence *Holland House**London*Port of Registry *London*If surveyed while building, afloat, & in dry dock *Yes*

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Total

*9314.15*

Gross Tonnage

*12857.28*

Register Tonnage

*7852.86*

## REGISTERED DIMENSIONS.

FEET.

Length

*370.2*

Breadth

*68.25*

Depth

*33.95*

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L *370.00*

Breadth (greatest moulded)

B *68.00*

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D *37.25*1st Longitudinal Number (L x D) = *18997*2nd Numeral L x (B + D) = *53677*

Framing Depth "d," at middle of length. See Sec. 3 (1d)

*10.29*

Proportions—Depth to Length—Uppermost continuous deck to top of keel

*13.96*

Do. Long Bridge to top of keel

*11.10*

Draught Moulded

*27.31*

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
Spacing amidships .....	<i>32</i>		Bracket Floors, Frame .....	<i>7 1/2 x 3/4 x 39</i>	
" from 1/4 length to Collision bulkhead .....	<i>27</i>		" " Reversed Frame .....	<i>7 x 3 x 39</i>	
" in peaks .....	<i>24</i>		" " Vertical Struts .....	<i>Flanged plates as approved.</i>	
AMING.			Centre Girder, depth and thickness amidships	<i>48 5/8 x 63</i>	
Amidships, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>9 x 3/2 x 50</i>		" " top Angles <i>(2)</i>	<i>3 1/2 x 3/2 x 57</i>	
" Extends up to <i>Upper 1st Dk.</i>			" " bottom Angles <i>(2)</i>	<i>5 x 5 x 67</i>	
nd Frame Amidships, Angle .....	<i>4 x 3 x 36</i>		Side Girders, No. each side and thickness <i>2</i>	<i>45</i>	
" Extends up to <i>2nd Dk.</i>			Margin Plate depth (excl. of flange) and thickness	<i>38 1/2 x 57</i>	
of Framing Girder <i>10 1/2</i> <i>1 1/2 x 3/4 x 50</i>	<i>10 1/2</i> <i>1 1/2 x 3/4 x 50</i>		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	<i>3 1/2 x 3 x 49</i>	
in Uppermost Continuous 'tween Decks, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>9 x 3/2 x 50</i>		" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem	<i>3 1/2 x 3 x 49</i>	
Second 'tween Decks, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>" " "</i>		" " Gussets, spacing and scantling abaft 1/4 len. from stem	<i>45</i> <i>every frame</i>	
Third <i>45°</i> <i>" " "</i>	<i>" " "</i>		" " Gussets, spacing and scantling forward 1/4 len. from stem	<i>45</i> <i>" "</i>	
g in Peaks, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>9 x 3/2 x 49</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>7 1/2</i> <i>48</i>	
er and Spacing of Rivets through Frame and Shell Plating amidships .....	<i>6 dia. @ 7 1/2</i>		INNER BOTTOM PLATING.		
Frame Joggled .....	<i>Yes</i>		Breadth and thickness of Middle Line Strake	<i>60 x 60</i>	
ARRANGEMENTS (Sec. 7), state system and particulars	<i>Frames increased, plating stringers, close spaced rivets as approved.</i>		Thickness of remainder in Holds	<i>52-48</i>	
THENING OF BOTTOM FOR	<i>Extra intercostals, steel increased, double frame close spaced rivets as approved.</i>		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	<i>Yes</i>	
D. State Particulars			BEAMS.		
BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>11 x 3/2 x 3/2 x 49</i>	
Depth and thickness at mid-line in Holds .....			" " in way of Bridge, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>9 x 3/2 x 3/2 x 57</i>	
Height of Brackets at side above base line at toe of frame .....			Spacing .....	<i>32</i>	
Line Keelson, on Floors, Angles, <i>45°</i> <i>7/8 x 3/4 x 50</i>			Second Deck, amidships, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>9 x 3/2 x 3/2 x 57</i>	
" " Through Plate or Intercostal Plate .....			Spacing .....	<i>32</i>	
" " Foundation Plate on Floors .....			Third Deck, amidships, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>9 x 3/2 x 3/2 x 57</i>	
" " Flat Plate Keel Angles			Spacing .....	<i>32</i>	
elons, No. each side .....			Fourth Deck, amidships, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>9 x 3/2 x 3/2 x 57</i>	
" thickness of Intercostal Plate .....			Spacing .....	<i>32</i>	
" Angles .....			Poop Deck, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>8 x 3/2 x 3/2 x 38</i>	
BOTTOM.			Spacing .....	<i>32</i>	
doors, thickness and spacing	<i>45 @ 96</i>		Bridge Deck, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>8 x 3/2 x 3/2 x 40</i>	
" Are Frame and Reversed Frame joggled?	<i>Yes</i>		Spacing .....	<i>32</i>	
Floors, breadth and thickness at middle line .....	<i>36 x 45</i>		Forecastle Deck, Angle <i>45°</i> <i>7/8 x 3/4 x 50</i>	<i>8 x 3/2 x 3/2 x 38</i>	
" breadth and thickness at margin plate .....	<i>5 1/2 x 45</i>		Spacing .....	<i>32</i>	

# PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS</b> , No. of Rows.....	2		Stringer Plate, breadth and thickness in way of Bridge .....	53 x 40	
" in 'tween Decks, Size and Spacing.....	Widely spaced pillars		Thickness of Plating abreast Deck openings in way of Wells .....	40-32	
" " " " " "	9 Girders as per		Thickness of Plating abreast Deck openings in way of Bridge .....	.36	
" in Holds " " " "	approved pillar		Thickness of Plating within line of openings...	.36-.32	
" " " " " "	4 Girders plan		If Sheathed, material and thickness .....	"	
<b>Centre Line Bulkhead.</b>			<b>Third Deck.</b>		
Stiffeners and Spacing.....	none		Stringer Plate, breadth and thickness.....	52 x 34	
Plating, thickness of .....	"		If Plated, state thickness.....	.30	
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....	53 x 34	
Stringer Plate, breadth and thickness in Wells	70 x 1.06 5.80		If Plated, state thickness .....	.30	
" " " " in way of Bridge	70 x 47		<b>Poop Deck.</b>		
" Angle in Wells .....	8 x 8 x 1.06		Stringer Plate, breadth and thickness .....	40 1/2 x 40	
Thickness of Plating abreast Deck openings in way of Wells .....	.74 5.56	24 deck plan	Plating, Sheathing, material and thickness ...	.26 52 3 PINE	ORIGON
Thickness of Plating abreast Deck openings in way of Bridge .....	.44		<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...	.48 5.32		Stringer Plate, breadth and thickness.....	70 x 70-46 under Plan	
If Sheathed, material and thickness .....	"		Plating, Sheathing, material and thickness ...	.37 52 3 PINE	ORIGON
<b>Second Deck.</b>			<b>Forecastle Deck.</b>		
Stringer Plate, breadth and thickness in Wells...	52 x 48 40		Stringer Plate, breadth and thickness.....	37 x 40	
			Plating, Sheathing, material and thickness ...	37 5 30 52 3 PINE	ORIGON

## SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.						
	AMIDSHIPS.		FORWARD.	AFT.		State if jagged?	No	SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.			Inches.	Inches.		
FLAT PLATE KEEL .....	61	.95	.85	.85	The upper edge of 5' 1" strakes have extra plate of 1/2" in each frame space in fore and aft. Keel as approved. - Beam at upper edge of 5' strake hollow rivets from frame 29 1/2" of plating increased in thickness at plating forward. - Propeller housing, of beam & under bottom.	Double	1	3 5/8	4	1" 4" Lapped				
„ DBLG. (if any)	✓					Double	1	3 5/8	4	1 4" Lapped				
BOTTOM PLATING, No. of Strakes ... 4 .....		.75	.52	.52		"	"	"	"	"	"			
BILGE PLATING, No. of Strakes ..... 2 .....		.75	.52	.52		"	"	"	"	"	"			
SIDE PLATING, No. of Strakes ..... 4 .....		.72	.50	.50		"	"	"	"	7/8 3 1/2	"			
UPPER DECK, Sheer-strake in Wells.....	53	1.20	.50	.50		"	1 1/4	4 7/8	3	1 1/4 4 1/2 Double Straps				
UPPER DECK, Sheer-strake in Bridge ...	53	.76				"	1	3 5/8	4	1 4" Lapped				
STRAKE BELOW Sheer-strake in Wells.....	53	.99	.50	.50		"	1 1/8	4	4	1 1/8 4 1/2				
STRAKE BELOW Sheer-strake in Bridge ...	53	.76				"	1	3 5/8	4	1 4"				
POOP SIDE PLATING .....		.42				Single	3/4	3 5/8	1	3/4 2 5/8	"			
BRIDGE SIDE PLATING ...		.67	Suppl.			Double	7/8	3 5/8	4	7/8 3 1/2	"			
FOREC'TLE SIDE PLATING		.46				Single	3/4	3 5/8	1	3/4 2 5/8	"			

## WATERTIGHT BULKHEADS.

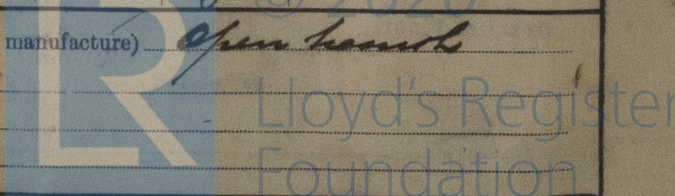
<b>Total No. of W.T. BULKHEADS in Vessel—</b>	
Extending to Upper Deck (Sec. 3 c) .....	9
" Deck next below .....	"
As per Rule .....	9

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKH'D</b> , Uppertween decks	.26	4 1/2 x 34	30		
" " Second "	.30	6 x 3 x 34	30	Other bulkheads	
" " Third "	.34	7 x 3 x 36	30	as approved	
" " Holds .....	.49-37	8 x 3 x 53	30		
<b>COLLISION</b> " (in Hold) .....	.53-32	9 x 3 x 48 1/2	30	3 x 38 1/2 at 24"	
<b>AFTER PEAK</b> " " .....	.53-33	9 1/2 x 3 1/2 x 50	30	at 24" as per plan	

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL</b> , Bar .....		Plate Keel		
<b>STEM</b> .....		Roller 11 x 27 1/2 Colville		
<b>STERN FRAME</b>	Propeller Post	Cast as per Thor's		
	Rudder "	Steel from stem		
<b>RUDDER—A x D</b> 1230				
<b>Speed of Vessel</b> .....	15 knots			
<b>RUDDER</b> mainpiece at head	Layed	15 3/4 Thor's		
" " heel	"	11 3/4		
" how constructed		Down channel on main piece		
" double or single plate coupling, vertical or horizontal .....		Single plate 1.16 thick		
		Horizontal		

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) .....
	David Colville Sons
	Has the Steel been tested as required by the Rules? .....
	Yes-



11 MAY 1927

EQUIPMENT No. 58892										LETTER 67		ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
88735	1st Bower ...	101	1	0				68	0	0	0	285	Haddi Patent	N. Hingley	Ret. 27/1/27 H. Green	
88736	2nd „ ...	98	1	0				66	17	2	0		“	“	“	“
88689	3rd „ ...	85	3	18				61	10	0	0		“	“	“	“
	Collective weight.	285	1	18								285			30/12/26	
88759	Stream .....	30	2	18	7	2	22	29	3	3	0	29 1/2	Common	“	31/1/27	

CHAIN CABLES.										HAWSERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire.	Length and size per Table 53.		Length and size per Table 53.	Length and size per Table 53.
	Length.	Diam.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.		
80376	166	2 1/4	14 1/2	18	629.1-3	125.8	330	2 1/4	Chain	N. Hingley	Ret. 4/2/27 H. Green	TOWLINE	150	7	113	150	7	79.5 W.	
80406	"	"	"	"	629.0-4		330	2 1/4	Link	"	" 31/3/27 " "	HAWSERS & WARPS	480	2 3/4	15	480	2 3/4	" "	
	330	2 3/4					330	2 3/4											
Iron Stream Chain or Steel Wire	120	6 5/8		85			120	6											

Steering Gear, Steam *Hartley Steam Combined* Steering Gear, Hand ☒

Boats *7 Boats (Life) & other* Steering Chains, Size and Test ☒ Windlass *Clark Chapman*

Ceiling in Holds, thickness and material *Holds insulated* Cargo Battens, thickness, material and spacing *Insulation in holds & tween decks*

Cargo Hatchways. (Upper Deck) *Keel 24" x 44* Thickness of Hatches *3.4.0*

Size of No. 1 Hatchway (Forward) *8'9" x 18'2"* No. 2 *24'7" x 18'2"* No. 3 *16'0" x 18'2"* No. 4 *16'0" x 18'2"* No. 5 *16'0" x 18'2"* No. 6 *16'0" x 18'2"*

Number of Shifting Beams and/or Fore and Afters *Nos 1, 3, 4, 5 & 6 = 3 each, 8 & 2 = 5* *No fore & afters*

*John Brown & Company, Limited*

Builder's Signature

*W. J. Anderson*  
Videobank Secretary

GENERAL DECLARATION *This vessel has been built according to the approved plans, Secretary's letter & generally in conformity with the rules for the class contemplated. The workmanship & the materials used are good. The double bottom tanks, oil bunker & peak tanks have been tested under water pressure & the weather decks, bulkheads & stern & bow have been tested with satisfactory results. The vessel is fitted for burning oil fuel & section 34 of the rules has been complied with for the oil fuel bunker & for the parts of the double bottom in which oil fuel will be carried. The freeboards have been verified & set in on the vessel's sides. Approved plans as noted on the back of this report are being forwarded herewith. This is a cargo vessel to the T.S.S. Orinda No. 46440 -*

The amount of Entry Fee ..... £ 12 : 0 : 0  
Special Survey Fee.... £ 485 : 14 : 3  
*Freeboard*  
Travelling Expenses, if any £ 15 : 0 : 0

Fees applied for,  
*5/5/27*  
Received by me,  
*12/5/27*

I am of opinion the Vessel should be Classed *100A1*  
*with freeboard*

State whether the Vessel has been built under Special Survey *Yes*

*Ernest Stern*  
Signature  
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to **GLASGOW** Date of issue *11/5/27*

Committee's Minute **GLASGOW 10 MAY 1927**

Character assigned *100A1*  
*with freeboard*

*527*  
*Lloyd's A.C.P.*  
*+ LMC 527. FD*  
*Fitted for oil fuel 527 F.P. above 150°F.*

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

- Approved plans -	
1. Keelship section & profile	= 1 Plan
2. " " " " as built	= 1 "
3. Stempost & Rudder	= 1 "
4. Deck plans	= 4 "
5. Strengthening of shell at breaks	= 1 "
6. Bulkheads	= 2 "
7. Forward framing & painting	= 1 "
8. Multiple punching	= 4 "
9. Frame brackets	= 1 "
10. Beam lines	= 1 "
11. Stiffening in E & B rooms	= 1 "
12. Log casing & thrust seats	= 2 "
13. Gangway & ash shoot doors	= 1 "
14. Pillar & Ladders	= 2 "
15. Deck Scuppers	= 1 "
16. Tunnel top & F. H. Tanks	= 1 "
17. Tunnel plan	= 1 "
18. Ash shoot	= 1 "
19. Cargo hatches	= 1 "
20. Air pipes, Boil tanks	= 2 "
21. Pumping arrangement	= 1 "
22. Strengthening of bottom forward	= 1 "
23. Hatch rigging	= 1 "
24. Coal Port	= 1 "
25. Oil bunkers	= 1 "
26. Coal bunkers	= 1 "
27. Superstructures	= 1 "
28. Shaft bracket	= 1 "
29. After end framing	= 1 "
30. Poop, Bridge & foremast bulkheads	= 1 Plan

Also 8 Fitting & casting Certificates

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	63.0.20	K.H.	42/4	13/11/26
2nd "	63.1.23	K.H.	42/4	19/11/26
3rd "	54.2.1	K.H.	42/2	19/11/26

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 68.33 ft., R.Q.D. v ft., Bridge 28.33 ft., Forecastle 78.25 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

No. and Material of Decks (this information is to be given as it should appear in the Register Book)

3 Dks. SCL. 4<sup>th</sup> Dk. SCL. in Nos. 1, 2, 3, 5 & 6 holds—

Official No. 149821

Signal Letters

Is bottom of Vessel coated with cement. Yes if not give particulars of composition.

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	133.33	444.5	Fore peak tank,	25.5	97
Double bottom, under Engines and Boilers,	26.70	164.5	After peak tank,	20.0	86
Double bottom, if under Engines only,	80.00	520.0	Deep tank, aft,	26.7	188
Double bottom, if under Boilers only,	80.50	661.0	Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		
1770			* The wells are not to be included in the lengths of the tanks.		
420.53					

Order for Special Survey No. 5713

Date 6.8.25

Dates of Surveys held while building

1925 Sep 26 Oct 3 23 30 Nov 20 (1926) Jan 21 26 27 28 Feb 2 4 9 10 16 17 23 Mar 1 4 8 9 22 23 26 30 Apr 6 7 9 23 30 May 12 13 14 17 20 21 27 31 Jun 9 14 16 22 July 7 9 13 28 30 Aug 2 4 6 11 17 19 23 24 26 31 Sep 2 6 9 10 14 15 29 24 Oct 13 25 Nov 4 8 17 22 23 24 29 Dec 1 6 9 13 14 27 30 (1927) Jan 10 17 21 24 27 Feb 1 4 7 10 24 28 Mar 2 7 14 21 30 2 Apr 7 19 20 25 26 27 May 6

Total No. of Visits 108