

STEEL STEAMER or MOTORSHIP.

10 APR 1933

Received at London Office.

State if Report has been sent on the Freeboard of the Vessel *Yes No 9848*State if Report is sent on the Machinery of the Vessel *Correct*Date of completion of report *7. 4. 33.*Port of **TRIESTE**No. *9954*Survey held at *Monfalcone*Date First Survey *9th Nov. 1931*Last Survey *23rd March 1933*

On the (State if Machinery Fitted Aft and if Single, Twin or Triple Screw)

T. S. M. V. "ORVILLE HARDEN"**MACHINERY AFT**

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

FULL SCANTLINGSState Type of Erections **AFTER BR, BR, + FcL**TONNAGE under Tonnage Deck... *11,748.55*CLASS *** 100 A1**State if with freeboard as condition of Class *No*Built at **MONFALCONE**Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 520'-0"*

FEET.

Launched *15th October 1932* Yard No. *250*Breadth (greatest moulded) *B 70'-0"**D 38'-4 1/2"*Builders **CANTIERI RIUNITI DELL'ADRIATICO****BALTISCH-AMERIKANISCHE**Owners **PETROLEUM IMPORT GES. m.b.H.**Total *11,748.55*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 38'-4 1/2"*Managers **WARIED TANKSCHIFF RHEDEEREI G.m.b.H.**
(Where necessary to be entered in Reg. Book.)Gross Tonnage *12,421.49*Register Tonnage *7,086.16*1st Longitudinal Number (L x D) *= 20,150*2nd Numeral L x (B + D) *= 56,550*Residence **HAMBURG**

REGISTERED DIMENSIONS.

METRES	FEET.
Length <i>159.08</i>	<i>522.0</i>
Breadth <i>21.45</i>	<i>70.22</i>
Depth <i>11.79</i>	<i>38.45</i>

Framing Depth "d," at middle of length. See Sec. 3 (1d) *✓*Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.42*Port of Registry **DANZIG**

If surveyed while building, afloat, or in dry dock

Do. Long Bridge to top of keel *✓*Draught Moulded *30'-3 3/8"***WHILE BUILDING**

FRAMES, DOUBLE BOTTOM AND BEAMS.

	IN SHIP.	Any Departure from Approved Plans to be Noted.		IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships <i>LONGIT. FRAMING</i>	<i>760</i>		Bracket Floors, Frame	<i>✓</i>	
" " from <i>FRAME 11 to 48</i>	<i>665</i>		" " Reversed Frame	<i>✓</i>	
" " in peaks	<i>610</i>		" " Vertical Struts	<i>✓</i>	
SIDE FRAMING.			Centre Girder, depth and thickness <i>AFT</i>	<i>180 4 14 3 1/2</i>	<i>16.5</i>
Frame Amidships, Angle, E or F	<i>250 90 11</i>		" " top Angles	<i>90 90 14</i>	
" " Extends up to	<i>UPPER DECK</i>		" " bottom Angles	<i>130 130 16</i>	
Reversed Frame <i>IN FORE HOLD</i>	<i>340 100 15</i>		Side Girders, No. each side and thickness	<i>THREE</i>	<i>13.5</i>
" " Extends up to	<i>2nd Deck</i>		Margin Plate <i>HORIZONTAL</i>		<i>16</i>
Depth of Framing Girder	<i>✓</i>		" " depth (each of flange) and thickness	<i>1200 100 16</i>	
Frames in Uppermost Continuous Tween Decks, Angle, E or F	<i>300 90 13</i>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	<i>✓</i>	
" " Second Tween Decks, Angle, E or F	<i>✓</i>		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	<i>✓</i>	
" " Third " " " "	<i>✓</i>		" " Gussets, spacing and scantling abaft 1/2 len. from stem	<i>✓</i>	
Framing in Peaks, Angle or F	<i>250 90 11</i>		" " Gussets, spacing and scantling forward 1/2 len. from stem	<i>✓</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>✓</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>2800 11</i>	
State if Frame Joggled	<i>No</i>		INNER BOTTOM PLATING.		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<i>3 SIDE STRINGERS</i>		Breadth and thickness of Middle Line Strake	<i>1960 16</i>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>SOLID FLOORS AT EVERY FRAME. DOUBLE RIVETED FRAMES AND TWO LINES OF INTERCOSTALS IN WAY OF BALLAST TANK. BACK BARS 90x90x11 TO BOTTOM LONGITUDINALS IN NO. 2 W.B. TANK AND NO. 1 OIL TANK. STRAKES OF PLATING NEXT TO KEEL MAINTAIN MIDSHIP THICKNESS TO COLLISION BULKHEAD.</i>		Thickness of remainder in <i>HOLD MOTOR SPACE</i>	<i>306 16</i>	
SINGLE BOTTOM.			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bulkheads and Boiler Room	<i>YES</i>	<i>✓</i>
Floors, Depth and thickness at mid-line in Holds	<i>✓</i>		BEAMS.		
Height of Brackets at side above base line at toe of frame	<i>✓</i>		Uppermost Continuous Deck, amidships		
Middle Line Keelson, on Floors, Angle, E or F	<i>180 90 10</i>		" " in Wells, Angle, E or F		
" " Through Plate or Intercostal Plate	<i>1400 11.5</i>		" " in way of Bridge, Angle, E or F	<i>LONGIT. BEAMS</i>	
" " Foundation Plate on Floors	<i>✓</i>		Spacing	<i>250 90 13</i>	
" " Flat Plate Keel Angles	<i>100 100 14</i>		Second Deck, amidships, Angle, E or F	<i>230 90 13</i>	
DOUBLE BOTTOM. AFT			Spacing	<i>250 90 11</i>	
Solid Floors, thickness and spacing	<i>13.5 + 12 AT EVERY</i>		Third Deck, amidships, Angle, E or F	<i>230 90 11</i>	
" " Are Frame and Reversed Frame joggled?	<i>YES</i>		Spacing	<i>AT EVERY</i>	
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Intermediate AFT	<i>230 90 11</i>	
" " breadth and thickness at margin plate	<i>✓</i>		Fourth Deck, amidships, Angle, E or F	<i>200 90 12</i>	
			Spacing	<i>200 90 10</i>	
			Poop Deck, Angle, E or F	<i>200 75 10</i>	
			Spacing	<i>AT EVERY</i>	
			Bridge Deck, Angle, E or F	<i>LONGIT. BEAMS</i>	
			Spacing	<i>200 90 12</i>	
			Forecastle Deck, Angle, E or F	<i>200 90 10</i>	
			Spacing	<i>AT EVERY</i>	

PILLARS AND DECKS.

PILLARS, No. of Rows.....	IN SHIP.		Any Departure from Approved Plans to be Noted.		IN SHIP.		Any Departure from Approved Plans to be Noted.
	IN SHIP.	IN SHIP.			IN SHIP.	IN SHIP.	
Stringer Plate, breadth and thickness ^{AFT} of Bridge					9.5		
Thickness of Plating ^{FRWD} abreast Deck openings in way of Wells					9		
Thickness of Plating ^{AFT} abreast Deck openings in way of Bridge					9.5		
Thickness of Plating within line of openings... ^{AFTER}					8.5		
If Sheathed, material and thickness					✓		
Third Deck.							
Stringer Plate, breadth and thickness					✓		
If Plated, state thickness					✓		
Fourth Deck.							
Stringer Plate, breadth and thickness					✓		
If Plated, state thickness					✓		
After Bridge Deck.							
Stringer Plate, breadth and thickness					10 1/2	10	
Plating, Sheathing, material and thickness					8% OREGON PINE	65%	
Bridge Deck.							
Stringer Plate, breadth and thickness					11 1/2	11.5	
Plating, Sheathing, material and thickness					9.5		
Forecastle Deck.							
Stringer Plate, breadth and thickness					10 1/2	10	
Plating, Sheathing, material and thickness					9.5		

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>No</i>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		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.	
	<i>inches over the</i>	<i>inches over the</i>	<i>inches over the</i>	<i>inches over the</i>		<i>inches over the</i>	<i>inches over the</i>		<i>inches over the</i>	<i>inches over the</i>		
FLAT PLATE KEEL	<i>1422</i>	<i>25.4</i>	<i>21.8</i>	<i>21.8</i>		<i>DOUBLE</i>	<i>28</i>	<i>112</i>	<i>THREE</i>	<i>28</i>	<i>126</i>	<i>DOUBLE STRAPS</i>
„ DBLG. (if any)									<i>See plan</i>			
BOTTOM PLATING, No. of Strakes <i>FOUR</i> ...	<i>2127 1939 2149 1879</i>	<i>21.25</i>	<i>18.5</i>	<i>14.25</i>		<i>DOUBLE</i>	<i>25</i>	<i>100</i>	<i>FIVE</i>	<i>25</i>	<i>112</i>	<i>LAPPED</i>
BILGE PLATING, No. of Strakes <i>TWO</i> ...	<i>1892 2060 2260</i>	<i>21.25</i>	<i>14.25</i>	<i>14.25</i>		<i>DOUBLE</i>	<i>25</i>	<i>100</i>	<i>FIVE</i>	<i>25</i>	<i>112</i>	<i>LAPPED</i>
SIDE PLATING, No. of Strakes <i>FOUR</i> ...	<i>2220 2170 2050</i>	<i>17.25</i>	<i>13.25</i>	<i>13.25</i>		<i>TREBLE</i>	<i>22</i>	<i>77</i>	<i>FOUR</i>	<i>22</i>	<i>88</i>	<i>LAPPED</i>
UPPER DECK, Sheer-strake in Wells.....)	<i>1372</i>	<i>28</i>	<i>13.25</i>	<i>13.25</i>		<i>DOUBLE</i>	<i>28</i>	<i>112</i>	<i>THREE</i>	<i>28</i>	<i>126</i>	<i>DOUBLE STRAPS</i>
UPPER DECK, Sheer-strake in Bridge ...)												
STRAKE BELOW Sheer-strake in Wells.....)	<i>1372</i>	<i>23.5</i>	<i>13.25</i>	<i>13.25</i>		<i>DOUBLE</i>	<i>25</i>	<i>100</i>	<i>THREE</i>	<i>25</i>	<i>112</i>	<i>DOUBLE STRAPS</i>
STRAKE BELOW Sheer-strake in Bridge ...)												
AFTER BRIDGE DECK SIDE PLATING				<i>13</i>		<i>DOUBLE</i>	<i>28</i>	<i>140</i>	<i>TWO</i>	<i>22</i>	<i>77</i>	<i>LAPPED</i>
BRIDGE SIDE PLATING ...	<i>1154</i>	<i>14.5</i>				<i>DOUBLE</i>	<i>28</i>	<i>140</i>	<i>TWO</i>	<i>22</i>	<i>77</i>	<i>LAPPED</i>
FORECASTLE SIDE PLATING			<i>11.5</i>			<i>SINGLE</i>	<i>22</i>	<i>88</i>	<i>TWO</i>	<i>22</i>	<i>77</i>	<i>LAPPED</i>

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) FIFTEEN

Deck next below ONE

As per Rule EIGHT

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks					
" " Second					
" " Third					
" " Holds	13 1/2 9.75	5 WEBS 2 LONGIT. BHDS		3320x100x13.5 TO 3300x90x10	Y62
COLLISION (in Hold)	14-8	7280x90x12 7200x90x10	610	3 SEMI BOX BEAMS	
AFTER PEAK	12-7.5	7300x90x13 7230x90x11	700		

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM	ROLLED	280x30	WITKOWITZER BERGBAU U. EISENHUTTEN GEN.	
STERN FRAME	CASTING	AS PER PLAN	SKODA WORKS	
RUDDER—A x D	FORGING	DIAM. 26.5	" "	
Speed of Vessel		12.5 KNOTS		
RUDDER main piece at head	FORGING	DIAM. 29.5	SKODA WORKS	
" " heel				
" how constructed			SIMPLEX RUDDER ELECTRICALLY WELDED	DEUTSCHE WERFT
" double or single plate			DOUBLE	
" coupling, vertical or horizontal			HORIZONTAL	

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) SIEMENS-MARTIN PROCESS;
 OESTERREICHISCH-ALPINE MONTAN GES.; WITKOWITZER BERGBAU U. EISENHUTTEN GEN.; VEREINIGTE STAHLWERKE A.G.
 A. THYSEN HÜTTE; HOERDER VEREIN; SOCIÉTÉ AN. D'OUVRÉE-MARIHAYE
 Has the Steel been tested as required by the Rules? YES.

List of approved plans accompanying this Rpt.

- 12 centrifuges for fogging, centrifuge, simplex Rudold & hammerman tube nests, are also enclosed.

III

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of ^{AFTER BRIDGE} ~~Deck~~ 54'8 ft., R.Q.D. ✓ ft., Bridge 40'0 ft., Forecastle 39'2 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

PARTICULARS OF WATER BALLAST.—

* The wells are not to be included in the lengths of the tanks.

Dates of Surveys held while building

1931 Nov 9, 26, Dec 10, 11, 16. 1932 Jan 11, Feb 1, 11, 13, 15, 19, 23, 24, Mar 2, 16, 21, 23, 25.
29 Apr 1, 4, 13, 14, 16, 18, 25, 27, 28, 29, 30 May 2, 3, 7, 9, 11, 12, 18, 20, 21, 25, 30, June 3, 7, 7, 13, 17
July 1, 5, 7, 9, 11, 13, 14, 16, 18, 23, 26, 28, Aug 1, 6, 8, 9, 10, 11, 25, 29, 31, Sep. 2, 3, 5, 6, 7, 7, 8, 9, 10, 12, 12,
13, 14, 14, 15, 16, 17, 17, 19, 20, 21, 22, 23, 23, 24, 26, 27, 28, 29, 30, 30, 30, Oct 1, 3, 3, 4, 5, 5, 6, 7, 8, 10, 12, 13, 14,
15, 15, 15, 20, 21, 24, 31, Nov 5, 7, 9, 10, 16, 16, 18, 21, 22, 24, 28, 30, Dec 2, 7, 9, 12, 14, 23, 1933 Jan 3, 4, 11, 16,
(7, 23, 31, Feb 3, 10, 13, 15, 22, 27 Mar 1, 1, 6, 8, 11, 13, 13, 15, 16, 20, 23

Total No. of Visits 162

"ORVILLE HARDEN"

pt. 1*.

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.			AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			RIVETING.				
			In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Rivets in Longitudinal Frames. Diam. Speng.	Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads. Number. Diameter.		
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
Spacing of Longitudinal Frames			Amidships			At Ends													
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