

STEEL STEAMER or MOTORSHIP.

26 NOV 1930
Received at London OfficeState if Report has been sent on the Freeboard of the Vessel *No*State if Report is sent on the Machinery of the Vessel *Yes*

Date of completion of report

24. 11. 30

Port of

Glasgow

No. 51028

Survey held at

Glasgow

Date First Survey

1st April 1930

Last Survey

18th November

1930.

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

*Steel Single Screw Motor Vessel "POLARTANK"**(Machinery aft)*

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

*Full Scantling*State Type of Erections *Pop, Bridge etc.*

TONNAGE under Tonnage Deck...

*5996.09*CLASS *+ 100 A1*State if with freeboard as condition of Class *No*Built at *Glasgow*

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) *420.0*Breadth (greatest moulded) *58.27*Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *32.25*1st Longitudinal Number (L x D) *13545*2nd Numeral L x (B + D) *38018*Framing Depth "d." at middle of length. See Sec. 3 (1d) *19.42*Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.02*Do. Long Bridge to top of keel *✓*Draught Moulded *25'-3 3/8*Launched *6th Oct 1930* - Yard No. *645*Builders *Baird & C. Ltd*Owners *HVALFANGERSELSKAPET - POLARIS A/S*

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

Residence *Nansen Norway*Port of Registry *Larvik*

If surveyed while building, afloat, or in dry dock

Yes

REGISTERED DIMENSIONS.

FEET.

Length *420.0*Breadth *58.5*Depth *32.5*

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.
ES, Spacing amidships	<i>Longitudinal Framing</i>		Bracket Floors, Frame	<i>✓</i>	
from 1/3 length to Collision bulkhead	<i>27</i>		Reversed Frame	<i>✓</i>	
in peaks	<i>24</i>		Vertical Struts	<i>✓</i>	
FRAMING. <i>For in way of Deep Tank.</i>			Centre Girder, depth and thickness amidships	<i>68 x .50</i>	<i>68 x .50 - .44</i>
Amidships, Angle, [or]	<i>11 3 1/2 .40</i>		top Angles	<i>4 4 .52</i>	<i>3 1/2 x 3 1/2 .52 - .48</i>
Extends up to	<i>Tank Top.</i>		bottom Angles	<i>3 1/2 3 1/2 .48</i>	<i>3 1/2 x 3 1/2 .42</i>
Side Frame Amidships, Angle	<i>10 3 1/2 .43</i>		Side Girders, No. each side and thickness	<i>66, .75 x .42</i>	<i>one @ .40</i>
Extends up to	<i>Upper Dk.</i>		Margin Plate depth (excl. of flange) and thickness	<i>Level .56</i>	<i>.52</i>
h of Framing Girder	<i>11 x 10</i>		Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	<i>6 6 .44</i>	
nes in Uppermost Continuous 'tween Decks, Angle, [or]	<i>✓</i>		Vertical Angle to Tank side Bracket forward 1/4 len. from stem	<i>✓</i>	
Second 'tween Decks, Angle, [or]	<i>✓</i>		Gussets, spacing and scantling abaft 1/4 len. from stem	<i>✓</i>	
Third " " " "	<i>✓</i>		Gussets, spacing and scantling forward 1/4 len. from stem	<i>✓</i>	
ing in Peaks, Angle, [or]	<i>8 3 1/2 .38</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>9'-0"</i>	
meter and Spacing of Rivets through Frame and Shell Plating amidships	<i>7/8 @ 5 1/2</i>		INNER BOTTOM PLATING.		
e if Frame Joggled (Frame)	<i>Yes</i>		Breadth and thickness of Middle Line Strake	<i>83 x .70</i>	<i>.50</i>
ING ARRANGEMENTS (Sec. 7), state system and particulars	<i>Stripes & Framing as per app. Plan 3 Strakes Atm Shell 1/4 thickness frame as approved</i>		Thickness of remainder in Holds	<i>1 1/8 and .56</i>	<i>.50</i>
NGTHENING OF BOTTOM FORWARD. State Particulars			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>	
E BOTTOM. <i>For</i>			BEAMS.		
rs, Depth and thickness at mid-line in Holds	<i>44 x .40</i>		Uppermost Continuous Deck, amidships in Wells, Angle, [or]	<i>8 3 .48</i>	
Height of Brackets at side above base line at toe of frame	<i>6'-8"</i>		in way of Bridge, Angle, [or]	<i>✓</i>	
le Line Keelson, on Floors, Angles, <i>Line Bld</i>	<i>Atm Strake .48</i>		Spacing	<i>27 1/8 24</i>	
Through Plate or Intercoastal Plate	<i>✓</i>		Second Deck, amidships, Angle, [or]	<i>8 3 .40</i>	
Foundation Plate on Floors	<i>✓</i>		Spacing	<i>10 3 1/2 .42</i>	
Flat Plate Keel Angles	<i>4 4 .5</i>		Third Deck, amidships, Angle, [or]	<i>✓</i>	
Keelsons, No. each side	<i>Two</i>		Spacing	<i>✓</i>	
thickness of Intercoastal Plate	<i>.40</i>		Fourth Deck, amidships, Angle, [or]	<i>✓</i>	
B-Angles	<i>8 3 .48</i>		Spacing	<i>✓</i>	
DOUBLE BOTTOM. <i>in track space</i>			Poop Deck, Angle, [or]	<i>8 x 3 x .45 - .48</i>	
Solid Floors, thickness and spacing	<i>.50 @ 3' .40</i>		Spacing	<i>30 1/8 24</i>	
Are Frame and Reversed Frame joggled?	<i>Yes</i>		Bridge Deck, Angle, [or]	<i>6 3 .36</i>	
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Spacing	<i>25 1/2 1/8 3 1/2</i>	
breadth and thickness at margin plate	<i>✓</i>		Forecastle Deck, Angle, [or]	<i>9 3 1/2 .45</i>	
			Spacing	<i>8 3 .36</i>	
				<i>27 1/8 24</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.
PILLARS, No. of Rows.....		✓			Stringer Plate, breadth and thickness in way of Bridge	79	x	44	
„ in 'tween Decks, Size and Spacing.....		✓			Thickness of Plating abreast Deck openings in way of Wells		42		
„ „ „ „ „		✓			Thickness of Plating abreast Deck openings in way of Bridge		42		
„ in Holds „ „		✓			Thickness of Plating within line of openings...		42		
„ „ „ „ „		✓			If Sheathed, material and thickness		✓		
Centre Line Bulkhead.		11	32	43	Third Deck.				
Stiffeners and Spacing.....	26	6	36		Stringer Plate, breadth and thickness.....		✓		
Plating, thickness of	50	6	37		If Plated, state thickness.....		✓		
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....		75	x	61
Stringer Plate, breadth and thickness in Wells	75	x	61		If Plated, state thickness		10	57	85
„ „ „ „ in way of Bridge	75	x	72		Poop Deck.				
„ Angle in Wells	6	6	65		Stringer Plate, breadth and thickness	55	2	36	
Thickness of Plating abreast Deck openings in way of Wells		53			Plating, Sheathing, material and thickness ...		30		
Thickness of Plating abreast Deck openings in way of Bridge		53			Bridge Deck.				
Thickness of Plating within line of openings...		53			Stringer Plate, breadth and thickness.....		41	42	
If Sheathed, material and thickness		✓			Plating, Sheathing, material and thickness ...		32		
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...	79	x	44		Stringer Plate, breadth and thickness.....	77	x	36	
					Plating, Sheathing, material and thickness ...		34		

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?			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.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	5 1/2	.93	.78	.75		Double	1	4	Five	1	4 1/2	Lapped	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes FOUR	80 82 79 1/2	.61	.52	.51		Double	7/8	3 1/2	Four	7/8	3 1/2	Lapped	
BILGE PLATING, No. of Strakes ONE	71 1/2 68 1/2	.61	.49	.51									
SIDE PLATING, No. of Strakes THREE	81 84	.59	.61	.65	.46 .59 - .46				Three		3/8		
UPPER DECK, Sheer- strake in Wells.....	58	.87	.46	.46			1	4	Five	1	4 1/2		
UPPER DECK, Sheer- strake in Bridge ...	58	1.03					1 1/8	4 1/2	Five	1 1/8	5 1/16		
STRAKE BELOW Sheer- strake in Wells.....	78	.71	.61	.46	.46		7/8	3 1/2	Four	1	4		
STRAKE BELOW Sheer- strake in Bridge ...	78	.71								1	4		
POOF SIDE PLATING	85			.39		Single			Two	3/4	2 7/8		
BRIDGE SIDE PLATING ...	96 52	.42				Double	1 1/8	2 5/8	Two				
FOREC'TLE SIDE PLATING	48		.42			Single	7/8	3 1/2	One.				

WATERTIGHT BULKHEADS.

Total No. of **W.T. BULKHEADS** in Vessel— *Fifteen*
 Extending to Upper Deck (Sec. 3 c) *Two*
 „ „ Deck next below *Five*
 As per Rule *Seven*

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	✓	✓	
STEM	Welded Steel 9 1/2 x 2 1/2			
STERN FRAME {	Propeller Post 12 dia. Cast	Keel	Stab 6	
{	Rudder " 10 x 8 1/2 Steel	app. plan	of Scotland	
RUDDER—A x D	46 3			
Speed of Vessel	12 Knots	Bochner		
RUDDER mainpiece at head ...	Forge Steel 11 1/2 dia	Vacuum		
" mainpiece heel ...	Cast Steel 12 1/2 x 10			
"	13 1/2 x 6			
" how constructed	Cast steel frame & arms etc			
" double or single plate	Double 50			
" coupling, vertical or	Horizontal			
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
<i>Summer Work</i> MIDSHIP BULKHD, Upper tween decks		.34	1 6 x 3 = .42	30	-	-
"	" Second "		-		-	
"	" Third "		-		-	
"	" Holds		1 2 3/4 x .42		3 11 x 3 1/2 = .52	
		.50 - .34	2 6 x 1 @ 10 = .46		2 7 x 3 1/2 = .33	30
			3 12 x 3 1/2 = .57		3 8 x 3 1/2 = .44	
COLLISION	" (in Hold)51 - .30	1 9 x 3 1/2 = .40	24	3 7 x 3 = .30	24 - 30
			3 10 x 3 1/2 = .30			
AFTER PEAK	"50 - .30	1 3 x 3 = .34	24	30 (see letter)	

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open hearth process.*
Wm Bessemer & Co L^{ts} Lancashire Steel Co L^{ts} James Dunlop & Co L^{ts} Dorman Long & Co L^{ts}
Consolidated Iron Co L^{ts} & David Colville Son L^{ts}
Has the Steel been tested as required by the Rules? *Yes*

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

List of Plans & Certificates—

Midship Section as built (forwarded in advance)

For further plans see *Mr. Norrison* by same builder Yard No 641.

Casting & Dipping Certificate of Stern frame. Litter quadrant, rudder (2)

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

1st Bower	43	0	7	K.H.	No 10126	28/10/29
2nd "	42	2	11	D.C.B.	No 3264	12/3/30
3rd "	35	3	17	A.B.	No 2713	3/4/30

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 104.5 ft., R.Q.D. ft., Bridge 28.0 ft., Forecastle 28.0 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) 2 de. (str)

Official No. : Signal Letters

particulars of composition *ph Cem.* Is bottom of Vessel coated with cement *peak only* if not give

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,	22.25	113
Double bottom, if under Engines only,	81.0	305	Deep tank, aft,	16.0	129
Double bottom, if under Boilers only,			Deep tank, forward,	38.25	498
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom		305	(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No 6092

Date 20. 3. 30

Dates of Surveys held while building

1930 Apr 1. 2. 15. 23 May 1. 12. 15. 23 26 June 4. 10. 12. 16. 17. 19. 20. 23. 24. 25. 27. 30
July 1. 2. 4. 7. 9. 10. 29. 30 Aug 1. 6. 11. 14. 15. 18. 22. 25. 26. 27. 29
12. 13. 15. 16. 17. 18. 19. 20. 22. 23. 24. 25. 26. 30 Oct 2. 3. 6. 17. 30 Nov 3. 12. 14. 15. 17. 18

Total No. of Visits

74

p 1*.

M/V. POLARTANK — GLASGOW REPORT No. 51028
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.		Spacing of Rivets on each side of Transverses and Bulkheads. Inches.	Rivets in Brackets to Bulkheads.			
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Diam.		Spong.	Number.	Diameter.	
ng of L or E ...																				
s in Bridge 'tween Decks ...			✓			✓			✓			✓								
es from Uppermost Continuous Deck No. 1		8	3 1/2	.44	8	3 1/2	.44	8	3 1/2	.44	8	3 1/2	.44	1	6	6	8	7/8		
" 2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-		
" 3		-	-	-	-	-	-	-	-	-	-	-	-	7/8	5 1/4	5 1/4	-	-		
" 4		9	3 1/2	.375	9	3 1/2	.375	9	3 1/2	.375	9	3 1/2	.375	-	-	5 1/4	9	-		
" 5		9	3 1/2	.41	9	3 1/2	.41	9	3 1/2	.41	9	3 1/2	.41	-	-	4" for	-	-		
" 6		10	3 1/2	.40	10	3 1/2	.40	10	3 1/2	.40	10	3 1/2	.40	-	-	10 Rivets	10	-		
" 7		-	-	-	-	-	-	-	-	-	-	-	-	-	-	on each side	-	-		
" 8		10	3 1/2	.43	10	3 1/2	.43	10	3 1/2	.43	10	3 1/2	.43	-	-	-	-	-		
" 9		10	3 1/2	.50	10	3 1/2	.50	10	3 1/2	.50	10	3 1/2	.50	-	-	-	-	-		
" 10		11	3 1/2	.50	11	3 1/2	.50	11	3 1/2	.50	11	3 1/2	.50	-	-	3 1/8" for	14	-		
" 11		12 x 3 1/2 x 3 1/2	.45/60		12 x 3 1/2 x 3 1/2	.45/60		12 x 3 1/2 x 3 1/2	.45/60		12 x 3 1/2 x 3 1/2	.45/60		-	-	-	16	-		
" 12		15 x 4 x 4	.41/60		15 x 4 x 4	.41/60		15 x 4 x 4	.41/60		15 x 4 x 4	.41/60		-	-	10 Rivets	12	-		
" 13		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
" 14		-	-	-	-	-	-	-	-	-	-	-	-	-	-	on each side	-	-		
" 15		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
and to No 21 " 16		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
acing of Longitudinal Frames		Amidships			At Ends			Amidships			At Ends									
acing of Longitudinal Frames		29 1/2 30			29 1/2 30			29 1/2 30			29 1/2 30									
able Bottoms		Tank Top Longitudinals			Bottom			Tank Top Longitudinals			Bottom									
acing of Longitudinals		Amidships			At Ends			Amidships			At Ends									
Transverses.																				
n Bridge		Depth and Thickness			-			-			-									
ween Decks		Face Angles			-			-			-									
		Lugs to Shell			-			-			-									
In		Depth and Thickness			30 3/4 to 24 x .40			30 3/4 to 24 x .40			30 3/4 to 24 x .40			30 3/4 to 24 x .40						
pper 'tween Decks.		Face Angles			3 1/2 3 1/2 .42			3 1/2 3 1/2 .42			3 1/2 3 1/2 .42			3 1/2 3 1/2 .42						
		Lugs to Shell			3 1/2 3 1/2 .40			3 1/2 3 1/2 .40			3 1/2 3 1/2 .40			3 1/2 3 1/2 .40			7/8 4			
In Hold.		Depth and Thickness			30 3/4 x .47			33 x .47			30 3/4 x .47			33 x .47						
		Face Angles			7 3 1/2 .52			7 3 1/2 .52			7 3 1/2 .52			7 3 1/2 .52						
		Lugs to Shell			6 6 .47			6 6 .47			6 6 .47			6 6 .47			7/8 4			
		" " Back Bars			-			-			-			-						
		Brackets			.40 5 .47			.40 5 .47			.40 5 .47			.40 5 .47						
acing of Transverse Frames		10'-7" 8'-10"			10'-7" 8'-10"			10'-7" 8'-10"			10'-7" 8'-10"			10'-7" 8'-10"						
* State if joggled or liners.																				
Longitudinal Beams of		Bridge Deck			7 3 1/2 .40			7 3 1/2 .40			7 3 1/2 .40			7 3 1/2 .40			21-30			
		Upper			7 3 1/2 .36			7 3 1/2 .36			7 3 1/2 .36			7 3 1/2 .36			30			
		Second			8 3 1/2 .35			8 3 1/2 .35			8 3 1/2 .35			8 3 1/2 .35			30			
		Third			✓			✓			✓			✓						
Transverse Beams.																				
In Ships.		Plate.			Angles.			Plate.			Angles.									
As approved.		Plate.			Angles.			Plate.			Angles.									
12 x .40		4 x 3 1/2 x 4			12 x .40			4 x 3 1/2 x 4												
18 x .40		5" Flange			18 x .40			5" Flange												
22 x .40		7 x 3 1/2 x 5 1/2			22 x .40			7 x 3 1/2 x 5 1/2												

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.