

STEEL STEAMER OR MOTORSHIP.

Received at London Office 22630 1938

State if Report has been sent on the Freeboard of the Vessel yesState if Report is sent on the Machinery of the Vessel yesDate of completion of report 12th January 1938 Port of Hamburg No. 22630Survey held at Hamburg Date First Survey 16th July 1937 Last Survey 4th January 1938On the Steel Single Screw Motor Tanker "NORVIK" Machinery fitted aft.State Type Full scantling Vessel State Type of Erections and Prop. W.J.P.TONNAGE under 8912 CLASS +100 A1 State if with freeboard no Built at Hamburg, Behn Meyer & Co.Do. of space or spaces between Tonnage Dk. and Upper Dk. - Length from fore part of stem to after part of stern L 483.465 Launched 24th Nov 1937 Yard No. 194Total - Breadth (greatest moulded) B 65.75 Builders Deutsche Werft A.G.Gross Tonnage 9555 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 35.917 Owners Johann Rasmussen & Co.Register Tonnage 5987 1st Longitudinal Number (L x D) = 17365 Managers -2nd Numeral L x (B + D) = 49152 (Where necessary to be entered in Reg. Book.)REGISTERED DIMENSIONS. FEET. Framing Depth "d," at middle of length. See Sec. 3 (1d) - Residence LandefeldLength 489.42 Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.46 Port of Registry Panama CityBreadth 65.75 Do. Long Bridge to top of keel - If surveyed while building, afloat, or in dry dockDepth 36.25 Draught Moulded 28'178" Surveyed while building and afloat.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	MM. IN SHIP.	Any Departure from Approved Plans to be Noted.		MM. IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	760	✓	Bracket Floors, Frame	-	✓
" " from $\frac{3}{8}$ length to Collision bulkhead	685	✓	" " Reversed Frame	-	✓
" " in peaks	610	✓	" " Vertical Struts	-	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1580.12.13.5	✓
Frame Amidships, <u>1580.12.13.5</u>	250 90 13	✓	" " top Angles	90.90 13-14	✓
" " Extends up to <u>Upper deck</u>	<u>Upper deck</u>	✓	" " bottom Angles	130.130 14-15	✓
Reversed Frame Amidships, Angle	-	✓	Side Girders, No. each side and thickness	2 14	✓
" " Extends up to	-	✓	Margin Plate depth (excl. of flange) and thickness	1050-14	✓
Depth of Framing Girder	250	✓	" " Vertical Angle to Tank side Bracket <u>160 160 14</u>	160 160 14	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	-	✓	" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem	continuous	✓
" " Second 'tween Decks, Angle, [or]	-	✓	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	550-11	✓
" " Third " " "	-	✓	" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem	-	✓
Framing in Peaks, <u>230 90 12</u>	230 90 12	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	2300-14	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22 120	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	no	✓	Breadth and thickness of Middle Line Strake	1420-13.5	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<u>Stringer and</u>	✓	Thickness of remainder in <u>ENGINE ROOM</u>	30-13.5	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<u>3 bottom strakes of increased thickness</u>	✓	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?	yes	✓
SINGLE BOTTOM.			BEAMS.	200 90 10	✓
Floors, Depth and thickness at mid-line in Holds	1350-11-12	✓	Uppermost Continuous Deck, amidships	230 90 11	✓
Height of Brackets at side above base line at toe of frame	-	✓	" " in way of Bridge, Angle, [or]	-	✓
Middle Line Keelson, <u>300 90 16</u>	300 90 16	✓	Spacing	every frame	✓
FACE BAR <u>1920-15</u>	1920-15	✓	I. STRINGER		
" " Through Plate or Intercoastal Plate	-	✓	Deck, amidships, Angle, <u>200 90 10</u>	200 90 10	✓
" " Foundation Plate on Floors	-	✓	Spacing	every frame	✓
" " Flat Plate Keel Angles	150 150 15	✓	II. STRINGER		
Side Keelsons, No. each side	2	✓	Deck, amidships, Angle, <u>200 90 10</u>	200 90 10	✓
" " thickness of <u>11.5</u>	11.5	✓	Spacing	every frame	✓
" " FACE BAR <u>200 90 10</u>	200 90 10	✓	III. STRINGER		
" " Angles <u>90 90 11.5</u>	90 90 11.5	✓	Fourth Deck, amidships, Angle, <u>200 90 10</u>	200 90 10	✓
DOUBLE BOTTOM. AFT			Spacing	every frame	✓
Solid Floors, thickness and spacing	12-760	✓	Poop Deck, <u>230 90 10</u>	230 90 10	✓
" " Are Frame and Reversed Frame joggled?	no	✓	Spacing	every frame	✓
Bracket Floors, breadth and thickness at middle line	-	✓	Bridge Deck, Angle, [or]	-	✓
" " breadth and thickness at margin plate	-	✓	Spacing	230 90 11	✓
			Forecastle Deck, <u>200 90 10</u>	200 90 10	✓
			Spacing	every frame	✓

W191-0022-2

PILLARS AND DECKS.

		mm. INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.			mm. INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....	2 Longitudinal bulkheads ✓										
" in 'tween Decks, Size and Spacing.....		✓	✓	✓							
" " " " "		✓	✓	✓							
FORW. " in Holds	hollow pillars wide spaced	250	12	✓							
" " " " "											
Centre Line Bulkhead , FORW. DEEPTANK											
Stiffeners and Spacing.....	BULB ANGLE	230	90	11 ✓							
		885		✓							
Plating, thickness of		8	11	✓							
STRINGERS AND DECKS.											
Uppermost Continuous Deck.											
Stringer Plate, breadth and thickness	1690	23	✓								
" " " " in way of Bridge		✓	✓	✓							
" Angle in Wells	200	200	23 ✓								
Thickness of Plating abreast Deck openings } in way of Bridge.....}	21		✓								
Thickness of Plating abreast Deck openings } in way of Bridge	✓	✓	✓								
Thickness of Plating within line of openings...	12		✓								
If Sheathed, material and thickness	not sheathed ✓										
Second Deck.											
Stringer Plate, breadth and thickness in Wells...		✓	✓	✓							
Stringer Plate, breadth and thickness in way } of Bridge		✓	✓	✓							
Thickness of Plating abreast Deck openings } in way of Wells		✓	✓	✓							
Thickness of Plating abreast Deck openings } in way of Bridge		✓	✓	✓							
Thickness of Plating within line of openings...		✓	✓	✓							
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		✓	✓	✓							
Poop Deck.											
Stringer Plate, breadth and thickness	1600	16	✓								
	990	9.5	✓								
	75	9-10	✓								
Plating, Sheathing, material and thickness ...	Oregon Pine	65	✓								
Bridge Deck.											
Stringer Plate, breadth and thickness.....		✓	✓	✓							
Plating, Sheathing, material and thickness ..		✓	✓	✓							
Forecastle Deck.											
Stringer Plate, breadth and thickness.....	915	9.5	✓								
	9		✓								
Plating, Sheathing, material and thickness ..	not sheathed		✓								

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	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.</i> <i>mm.</i>	<i>inches.</i> <i>mm.</i>	<i>inches.</i> <i>mm.</i>	<i>inches.</i> <i>mm.</i>			<i>inches.</i> <i>mm.</i>	<i>inches.</i> <i>mm.</i>		<i>inches.</i> <i>mm.</i>	<i>inches.</i> <i>mm.</i>		
FLAT PLATE KEEL ...	1400	26.5	20.5	20.5	✓	Double	28	110	✓ 5	28	100	Lapped	
„ DBLG. (if any)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
BOTTOM PLATING, No. of Strakes 4.....	2300	18	19.5	13.5	✓	Double	22	85	✓ 5	22	99	Lapped	
BILGE PLATING, No. of Strakes 1.....	1850	18	16	13.5	✓	"	22	85	✓ 5	22	99	"	
SIDE PLATING, No. of Strakes 3.....	2150	17	12.5	12.5	✓	"	22	85	✓ 4	22	88	"	
UPPER DECK, Sheer- strake in <i>in/width</i>	2150	25	12.5	12.5	✓	"	28	110	✓ 5	28	126	"	
UPPER DECK, Sheer- strake in Bridge ...	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
STRAKE BELOW Sheer- strake in <i>in/width</i>	2250	21	12.5	12.5	✓	Double	25	95	✓ 5	25	100	Lapped	
STRAKE BELOW Sheer- strake in Bridge ...	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
POOP SIDE PLATING	✓	✓	22	11	✓	Double	22	85	✓ 2 3	22	77	Lapped	
BRIDGE SIDE PLATING ...	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
FOREC'TLE SIDE PLATING	✓	✓	11	✓	✓	Single	22	77	✓ 2	22	77	Lapped.	

WATERTIGHT BULKHEADS.

Q. O. T.

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

Extending to Upper Deck (Sec. 3 c) 16 17 BH.

„ Deck next below 16

As per Rule Yes

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		Flat plate	Keel	✓
STEM		Plate built	as appx.	✓
STERN FRAME {	Propeller Post	casting	"	✓
INTERM. {	Rudder	SHAF. Forging	2700	" " " "
Speed of Vessel		12 Km.	✓	
RUDDER—Type		Simplex	Balance	
" A x D				
" Diam. of head		Forging	293	✓
" Mainpiece at top pintle				
" " heel ...				
" how constructed		Electric welded	Simplex Balance Rudder	✓
" double or single plate coupling, vertical or horizontal		double plate	horizontal	✓

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
CENTRE TANKS						
MIDSHIP BULKH'D.	Upper	8-13	2280 x 1520	2300	150.75.75	
	Lower	8-13	2250 x 145	2300	250.90.115	740
SIDE TANKS						
"	" Bulkhead "	8-13	250 x 90 x 11	670	-	-
"	" Third "	-	-	-	-	-
"	" Holds	-	150.75.9			
COLLISION	" (in Hold)	6.5-13	180.75.9	600	280 x 90.12	600
	"	7.5-13	165.75.10	600	250.90.10	600
AFTER PEAK	"	7.5-13	180.75.9	600	230.90.11	600
	"	7.5-13	180.75.9	600	230.90.11	600

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *L. M. Open Hearth Process*
Gutehoffnungshütte, Oberhausen.
Has the Steel been tested as required by the Rules? *Yes.*

EQUIPMENT No 51012 ✓												LETTER et ✓		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.					
3091	1st Bower ...	83	3	18	✓	-	-	60	10	0	0	} ✓ Cwts.	Shackless	O. Guinness & Co.	Maydelong, 20.8.37 J. H.	
3092	2nd „ ...	83	2	6	✓	-	-	60	10	0	0		“	“	“	20.8.37 “
3093	3rd „ ...	83	1	14	✓	-	-	60	10	0	0		“	“	“	20.8.37 “
	Collective weight.	250	3	10	✓							244½ ✓			20.8.37 “	
3094	Stream	25	0	9	✓	1	23	24	17	0	21	25 cwt. ex stock	Ordinary	O. Guinness & Co.	Maydelong, 20.8.37 “	
CHAIN CABLES																

CHAIN CABLES.										HAWERS 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.	Diam.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Length.					Ins.	Length.		Ins.	Tons.
1448	303	2 7/16	116 3/8	163 3/8	1094.2:16	989	300	2 7/16	Shad Gutchoffnungsh. Kerkrade link a.f.		20.4.17 J. Quast	Special Flexible TOWLINE	130	5 1/2	91	130	5 1/2	
													2a. ✓	✓	✓	2a	✓	
													100	3	27.5	100	3	
													4a. ✓	✓	✓	2a	✓	
													100	2 3/4	22.8	100	2 3/4	
Special Flexible (Steel Wire)		Cir.						Cir.		Gutchoffnungsh. Gelbbrunnen link a.f.		29.30. Jan. F. Schmidt	"					
	120	4 3/4	-	697			120	4 3/4										

Steering Gear, *Electric*; efficient: *Distal Works, Kiel* Steering Gear, Hand *yes*; efficient

Boats *2 lifeboats: 1 fig. 1 Motor boat* Steering Chains, Size and Test *no chains* Windlass *steam*, efficient

Ceiling in Hold, thickness and material *65 mm. pine* Cargo Battens, thickness, material and spacing *none fitted*

Cargo Hatchways. — (Upper Deck) *Steel plates and angles* Thickness of Hatches *Steel covers 15 mm thick*

Size of No. 1 Hatchway *(Forward) 15.25 x 10.70* No. 2 *✓* No. 3 *✓* No. 4 *✓* No. 5 *✓* No. 6 *✓*

Number of Shifting Beams and/or Fore and Afters *none*

**DEUTSCHE WERFT
AKTIENGESELLSCHAFT**
Builder's Signature *W. Wingert*

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *yes*

(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *oil tanker* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

Oil fuel flash point above 150°F.

This vessel has been built in accordance with the approved and amended plans, the requirements embodied in the Secretary's Letters and in all other respects in conformity with the Rules and Society's Requirements for "Carrying Petroleum in bulk". The workmanship is of the best description for this type of vessel, all parts conforming well with each other and efficiently riveted together. The peak bulkheads, double bottom bulkheads, deep bulkheads, oil cargo bulkheads and cofferdams have been fitted and tested as required by the Rules and were found perfectly tight. The air and sounding pipes of all bulkheads comply with the Rules. The pumping arrangement and strong throwing of the bottom forward have been carried out as approved. The steel material used in the construction of this vessel has been made at works approved by the Germanischer Lloyd and tested by the Society's Surveyors.

The amount of Entry Fee *DM. 220.-* Fees applied for, *11. Jan. 1938*

Special Survey Fee *DM. 13 166.25* Received by me, *4/2 1938*

Freight *DM. 400.-*

Travelling Expenses, if any *DM. 123.75*

I am of opinion the Vessel should be Classed *+ 100 A 1*

"Carrying Petroleum in bulk"

State whether the Vessel has been built under Special Survey *yes* Signature *H. Goering*

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Hamburg Office* Date of issue *21/2/38*

Committee's Minute *TUE. 1 FEB 1938*

Character assigned *+ 100 A 1*

Carrying petroleum in bulk

Lloyd's A & C *Rudder electrically welded*

+ Dmc 1.38 *oil tank*

300 170 lb. *Cl.*

Write down

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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.)

Anchors and cables have been compared with the Certificate and found in order. The Rudder is of special construction; electric welded Simplex Balance Rudder.

The subboard as assigned by the Committee has been marked and cut in on vessel's sides, verified same and found correctly marked.

The approved plans are being retained for use in connection with the sister vessel Yard No. 195.

Plans showing vessel as built are attached:

Midship Section.

Profile and decks.

1 Interior Certificate and 3 Test Certificates attached.

Note: An ^{side}whaler stringer has now been fitted as proposed by the builders for the whole length of the engine space as shown in the plan attached.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book.

Cruiser stern; Machinery aft; Rudder electrically welded; Wire Telegraphy; Echo sounding device; Direction finder.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	Head: Weight: 54:3:11 cwt; drop test 12 ft; No. 1689; H. Shole 13.8.37.							
	1st Bower	Shank:	"	23:1:0	"	"	"	1686; " " 13.8.37.
		Head:	"	54:1:23	"	"	"	1690; " " 13.8.37.
	2nd "	Shank:	"	23:1:11	"	"	"	1687; " " 13.8.37.
		Head:	"	54:1:10	"	"	"	1691; " " 13.8.37.
	3rd "	Shank:	"	23:1:11	"	"	"	1688; " " 13.8.37.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 113.5 ft., R.Q.D. — ft., Bridge — ft., Forecastle 68.75 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

No. and Material of Decks 1st dk (Steel); 2nd dk (Steel) in machinery space.

Official No. 968; Signal Letters H. P. 1. D. Is bottom of vessel coated with cement? Yes after plating cement. particulars of composition Oil tanks not coated; Fresh water tank in engine space cement.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	26	164
Double bottom, under Engines and Boilers,			After peak tank,	18	258
Double bottom, if under Engines only,	75	210	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	36	712
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 209

Date 26.4.37

Dates of Surveys held while building

1937: July 16, 26, August 4, 9, 12, 20, 24, September 1, 6, 10, 15, 20, 23, 27, 29, October 1, 5, 8, 13, 19, 22, 25, 27, 29, November 1, 3, 4, 5, 6, 8, 10, 11, 13, 16, 20, 23, 26, 29, December 4, 7, 9, 11, 14, 16, 29, 30, January 3, 4.

Total No. of Visits 48