

RECEIVED

12 SEP 1949

IN D.O.

Date of completion of report

22.8.49

Survey held at

Norrköping

Date First Survey

12th Dec. 1947

Last Survey

14th July.

1949.

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

Single screw m/t "NORDHEM"

Mach. fitted aft.

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

Full Scantling

State Type of Erections Forecastle and poop

TONNAGE under Tonnage Deck ...

686

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

Total

Gross Tonnage

1041.93

Register Tonnage

492

REGISTERED DIMENSIONS.

FEET

Length

214.9

Breadth

34.0

Depth

14.4

STEEL STEAMER OR MOTORSHIP.

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

Port of Stockholm

No. 7380

CLASS +100 A1

State if with freeboard as condition of Class

Carrying Petroleum in bulk.

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

204'-0"

Breadth (greatest moulded)

B 34'-0"

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

D 14'-3"

1st Longitudinal Number (L x D)

2907

2nd Numeral L x (B + D)

9843

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

-

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

14.3

Do. Long Bridge to top of keel

Draught Moulded

13'-6 1/8"

Built at Norrköping

Launched 1.11.1948

Yard No. 124

Builders A/B Norrköpings Varv & Verkstad

STOCKHOLMS REDERI A/B

Owners Rederi A/B Manhem

Svea

Managers Erik Högerberg

(Where necessary to be entered in Reg. Book)

Residence Stockholm

Port of Registry Stockholm

If surveyed while building, afloat, or in dry dock

While building, afloat and on slip way.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. mm.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. mm.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	610 ✓		Bracket Floors, Frame	-	
" " from 1/2 length amidships to Collision bulkhead	580 ✓		" " Reversed Frame	-	
" " in peaks	580 ✓		" " Vertical Struts	-	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	8.5 ✓	
Frame Amidships, Angle, [or]	150 75 8 ✓		" " top Angles	welded ✓	
" " Extends up to	Upper deck ✓		" " bottom Angles	welded ✓	
Reversed Frame Amidships, Angle	-		Side Girders, No. each side and thickness	one 13 below Engine	seatings
" " Extends up to	-		Margin Plate depth (excl. of flange) and thickness	560 8.5	
Depth of Framing Girder	-		" " Vertical Angle to Tank side	welded ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	-		" " Bracket abaft 1/2 len. from stem	welded ✓	
" " Second 'tween Decks, Angle, [or]	-		" " Vertical Angle to Tank side	welded ✓	
" " Third " " " "	-		" " Bracket from forward 1/2 len. from stem to Panting Area	-	
" " from 1/2 len. for'd. to 15% len. from Stem	150 75 8 ✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	-	
" " in Peaks, Angle or [150 75 8 ✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	-	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	-		Tank Side Brackets, height above base line at toe of Frame and thickness	1150 8 flanged 75	
State if Frame Joggled	No ✓		INNER BOTTOM PLATING. in ER		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes ✓		Breadth and thickness of Middle Line Strake	8.5 transverse	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes ✓		Thickness of remainder in Holds ER	8.5 ✓	
GLE BOTTOM.			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bankers and Boiler Room?	Yes ✓	
Floors, Depth and thickness at mid-line in Holds	Web frames as per approved plans ✓		BEAMS.		
Height of Brackets at side above base line at toe of frame	approved plans ✓		Uppermost Continuous Deck, amidships in Holds, Angle, [or]	100 75 8 ✓	
Middle Line Keelson, on Floors, Angles, [or]	Centre line bulkhead as per approved plans ✓		" " in way of Bridge, Angle, [or]	130 65 8 ✓	
" " Through Plate or Inter-costal Plate	as per approved plans ✓		" " Spacing	610 ✓	
" " Foundation Plate on Floors	as per approved plans ✓		Trunk Top		
" " Flat Plate Keel Angles	as per approved plans ✓		Second Deck, amidships, Angle, [or]	100 75 8	
Double Keelsons, No. each side	Full and half		" " Spacing	610 ✓	
" " thickness of Inter-costal Plate	girders as per approved plans ✓		Third Deck, amidships, Angle, [or]	-	
" " Angles	approved plans		" " Spacing	-	
DOUBLE BOTTOM. in ER			Fourth Deck, amidships, Angle, [or]	-	
Solid Floors, thickness and spacing	7.5 every frame ✓		" " Spacing	-	
" " Are Frame and Reversed Frame joggled?	floors welded ✓		Poop Deck, Angle, [or]	140 65 8	
Bracket Floors, breadth and thickness at middle line	-		" " Spacing	1160 ✓	
" " breadth and thickness at margin plate	-		Bridge Deck, Angle, [or]	-	
			" " Spacing	-	
			Forecastle Deck, Angle, [or]	100 75 8	
			" " Spacing	580 ✓	

(MADE IN ENGLAND.)

014059-014067-0141 1/2

PILLARS AND DECKS.

	IN SHIP. mm.	Any Departure from Approved Plans to be Noted.	IN SHIP. mm.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows	-		Stringer Plate, breadth and thickness in way of Bridge	-
„ in 'tween Decks, Size and Spacing	-		Thickness of Plating abreast Deck openings in way of Wells	12 ✓
„ „ „ „ „ „	-		Thickness of Plating abreast Deck openings in way of Bridge	-
„ in Holds „ „ „	-		at Trunk Sides Thickness of Plating within line of openings	9.5 ✓
„ „ „ „ „ „	-		If Sheathed, material and thickness	-
Centre Line Bulkhead. Stiffeners and Spacing	150 75 8 ✓ Frame spacing		Third Deck. Stringer Plate, breadth and thickness	-
Plating, thickness of	8.5 ✓		If Plated, state thickness	-
STRINGERS AND DECKS. Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells	2600 9.5 ✓		Fourth Deck. Stringer Plate, breadth and thickness	-
„ „ „ „ „ in way of Bridge	-		If Plated, state thickness	-
„ Angle in Wells	Welded ✓		Poop Deck. Stringer Plate, breadth and thickness	1700 6.5 ✓
Thickness of Plating abreast Deck openings in way of Wells	-		Plating, Sheathing, material and thickness ...	6 ✓ wood 2 1/2"
Thickness of Plating abreast Deck openings in way of Bridge	-		Bridge Deck. Stringer Plate, breadth and thickness	-
Thickness of Plating within line of openings...	-		Plating, Sheathing, material and thickness ...	-
If Sheathed, material and thickness	-		Forecastle Deck. Stringer Plate, breadth and thickness	7.5 ✓
Trunk Top Second Deck Stringer Plate, breadth and thickness in Wells	8 ✓		Plating, Sheathing, material and thickness...	7.5 ✓ - -

SHELL PLATING.

SCANTLINGS. m/m					RIVETING.				
STRAKES.	AS IN VESSEL.				EDGES.		BUTTS.		
	AMIDSHIPS.		FORWARD.	AFT.	State if jogged?	SINGLE OR DOUBLE.	RIVETS.		STRAPPED LAPPED
	Breadth.	Thickness.	Thickness.	Thickness.			No. OF ROWS OF RIVETS.	RIVETS. Diam. Spacing cr. to cr.	
Flat Plate Keel	1020	14.5 ✓	13 ✓	12 ✓					
„ Dblg. (if any)	-	Boss plate		10					
Bottom Plating, No. of Strakes two		10.5 ✓	15 ✓	9/8.5 ✓					
Bilge Plating, No. of Strakes one		10.5 ✓	15 ✓	9.5 ✓					
Side Plating, No. of Strakes									
Upper Deck, Sheer- strake in Wells	2450	10.5 ✓	15 ✓	8.5 ✓					
Upper Deck, Sheer- strake in Bridge ...	-								
Strake below Sheer- strake in Wells	-								
Strake below Sheer- strake in Bridge ...	-								
Poop Side Plating				6.5 ✓					
Bridge Side Plating	-								
Forecastle Side Plating				11/7.0 ✓					

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	9 ✓
Extending to Upper Deck (Sec. 3 c)	9 ✓
„ Deck next below	-
As per Rule	9

	Plating Thickness.	STIFFENERS. m/m			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks					
„ „ Second „					
„ „ Third „					
„ „ Holds	8.5 ✓	150x75x8	660/640	400x9x	2400 ✓
COLLISION „ (in Hold) fr. 97	7.5/9 ✓	130x65x8	610	200x9x	above BL
AFTER PEAK „ „ fr. 5	7.5/9 ✓	100x75x8	610	Stringers as per	plans ✓

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)	Collvilles Ltd Dalzell Steel and Iron Works, Domnarfvets Jernverk.
STEEL.	Open Hearth Process. ✓
Has the Steel been tested as required by the Rules?	Yes. ✓

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any D. from A Plans to
KEEL, Bar	Plate keel ✓			
STEM upper part plate 11-15 mm.	Forged 100 mm ✓		Domnarfv	
STERN FRAME { Propeller Post	Cast as per		Kohlswa	
{ Rudder „	plan approved ✓			
Speed of Vessel	10.5 Knots ✓			
RUDDER—Type	Streamline			
„ A x D. x 100	203 m ² x m			
„ Diam. of head	forged 145 m/m ✓			
„ Mainpiece at top pintle	Welded construction			
„ „ heel ...				
„ how constructed	As per approved plans ✓			
„ double or single plate	double 10 m/m ✓			
„ coupling, vertical or				
„ horizontal	horizontal ✓			

EQUIPMENT No. 10853 ft² LETTER "m" 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.					
65916	1st Bower	22	2	14	Stockless	22	16	3	14	23:1:0	Halls Type	I. Preston	C.H. 7.6.1948	Murphy		
65918	2nd "	22	2	0	"	22	15	0	0	23:1:0	"	"	"	"		
65917	3rd "	22	1	14	"	22	13	0	14	20:1:0	"	"	"	"		
	Collective weight	67	2	0						66:3:0						
65997	Stream	6	0	14	1	2	10	8	7	2	0	6:0:0	Ordinary Pattern	"	C.H. 14.6.1948	Murphy

CHAIN CABLES. El. welded. 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.			
	Fathoms.	Ins.	Tons.	Ins.	Supplied.	Per Rule.	Fathoms.	Ins.					Fathoms.	Ins.		Fathoms.	Ins.	Tons.	Fathoms.
66614	210	9/16	52	37 1/2	221:2:24	222:2:0	210	7/16	Stud link	Griffisi-Woodhouse chain cable Ltd.	C.H. 14.6.48	TOWLINE	165	M	3 1/2	25.7	165	3 1/2	
					77:18:0:0							HAWSERS & WARPS	165	M	83	21.7	-	-	
					x) Owners' consent								165	M	70	15.2	-	-	
													165	M	57	10.8	165	57	
													2 x 165	M	165	HEMP	165	M	127

Steering Gear, Type (Power or hand) Donkins Electro-Hydraulic Hydraulic piped. Alternative Means of Steering Handsteering separately

Windlass Helsingborgs Varv A6 Boats Two 6.12x2.15x0.92-7.1 m³

main (Size and Test) -

rgo

olds, thickness and material 2 1/2 wood on 1" battens

To oil cargo Tanks: steel 500 m/m above trunk top

Cargo Battens, thickness, material and spacing

ways. (Upper Deck) To dry cargo hold: " 660 " " deck Steel 11 m/m to oil cargo tanks

Thickness of Hatches 7 " " dry " hold

to oil cargo tanks To dry cargo hold

ways No. 1 (Forward) 1650x800 m/m No. 2 2000x1140 m/m No. 3 No. 4 No. 5 No. 6

Shifting Beams } To dry cargo hold: Steel cover stiffened by three frames 90 x 7

re and Afters }

Builder's Signature AB Norrköpings Varv & Verkstad

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 motorship

ether 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

ated, together with the flash point (where required to be inserted in the Notation).

esel has been built in conformity with the Society's Rules and Regulations and the Secretary's letters.

tlings and arrangements are in accordance with or equivalent to those shown on the approved plans. The

s and workmanship are good. The tanks, decks, bulkheads and W.T. doors have been tested in accordance with

s and the Requirements of Section 40 of the Rules (1947 - 48) have been complied with where applicable. The

constructed to carry petroleum in bulk and fuel oil in wingtanks in E.R. forward and double bottom tanks in

sh point above 150° F and the Requirements of Section 20 of the Rules (1947-48) have been complied with.

ng oil is carried in double bottom tanks in E.R. The steering arrangements and the windlass have been tested

orily under working conditions. The freeboards have been verified and the marks cut in on the vessels sides.

Freeb.

amount of Entry Fee Kr. : 330:- Fees applied for, 248 1949

Special Survey Fee Kr. 4.000:-

Received by me,

Travelling Expenses, if any Kr. 1.871:45 19

I am of opinion the Vessel should be Classed +100 A1

Carrying Petroleum in Bulk.

Signature H.O. Albertson

Surveyor to Lloyd's Register of Shipping.

te whether the Vessel has been built under Special Survey Yes

tificate to be sent to Stockholm Office. Date of issue 19/12/49

Committee's Minute

Character assigned +100A1 Carrying petroleum in bulk

Strengthened for navigation in ice.

+ LMC 7.49 Oil Eng (subject)

With SKM (H.M.) DB. 178 lb. O.G.

Working certificate the endorsed.

Lloyd's Register Foundation

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.)

As built plans now forwarded: Midship section, Longitudinal section and plans and shell expansion.

Approved plans now forwarded: Midship section, Longitudinal section and plans, Shell expansion, Sternframe and Rudder, Centre line bulkhead, Transverse bulkheads, Girders, Stringers, Trunk, Foreship, Double bottom in Engine Room, Wingtanks in Engine Room, Floor below boiler, After peak Hatch to Dry Cargo Hold, Hatches on Trunk, Main deck and Pump Room, Dayly fuel oil tanks, Engine seatings for auxiliary engines, Frames, Rudder, Rudder upper part and coupling, Rudder lower part, Settletank for lubricating oil, Mast, Quadrant-tiller.

Swedish tonnage

Under deck	686
Gross	1046
Net	675

PARTICULARS OF ELECTRIC WELDING (if employed) Vessel is all welded except stiffeners in deckhouse and Engine casing, beam levers in E.R. and fore peak and brackets at horizontal girders in holds and wheel house of light alloy.

Elektrodes: Esab OK 48, OK 50 and OK Rapid.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Cruiser stern, Echo Sounding Device, Direction finder, Electrically welded, Strengthened for navigation in ice, Carrying Petroleum in Bulk.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	Head 12:3:8 IC 3749	19.3.48	Shank 9:0:25 IC 3749	7.6.48
	2nd "	" 12:3:15 IC 3751	19.3.48	" 9:0:4 IC 3751	7.6.48
	3rd "	" 13:0:8 IC 3750	19.3.48	" 8:2:25 IC 3750	7.6.48

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 56.3 ft., R.Q.D. — ft., Bridge — ft., Forecastle 29.5 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated —
Official No. — Signal Letters — Extreme Breadth over Belting — Over-all Length 226.7 ft.
(Circ. 1611) (Circ. 1703)

No. and Material of Decks One deck, steel

Parts of Bottom of Vessel coated with cement or approved composition Cement: Fore peak; Asterpiol: After peak and deep tank forward

Particulars of composition (if fitted) and of approval —

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		50
Double bottom, under Engines and Boilers,			After peak tank,		28
Double bottom, if under Engines only,	41.9	36.4	Deep tank, aft,	9.5	20
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	41.9	36.4	Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 24

Date 15/7-47.

Dates of Surveys held while building

1947:- Dec. 12

1948:- Jan. 13, 22. Feb. 6. Mar. 17. April 7, 23. May 21. June 9, 22. Aug. 16. Sep. 21, 30. Oct. 1, 6, 7, 14, 15, 22, 27.

Nov. 1, 25. Dec. 21.

1949:- Jan. 14. Feb. 19, 25. April 6. May 4, 10, 25. June 3, 15, 22.

July 2, 13, 14.

Total No. of Visits 36