

TONNAGE under Tonnage Deck ... 9.440,50

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

Total
Gross Tonnage Brit. 10.650,02
Swed. 10.555,11
Register Tonnage Brit. 6.202,30
Swed. 7.827,11

CLASS *100A1 Carrying Petroleum in Bulk. State if with freeboard as condition of Class No.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 500.82'

Breadth (greatest moulded) B 63.00'

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 38.50'

1st Longitudinal Number (L x D) = 18750

2nd Numeral L x (B + D) = 50250

Framing Depth "d," at middle of length. See Sec. 3 (1d) = 12.99'

Proportions—Depth to Length—Uppermost continuous deck to top of keel Do. Long Bridge to top of keel = 29'-9.91"

Draught Moulded 29'-9.91"

Built at Malmö.

Launched 3rd April, 1951. Yard No. 325

Builders Kockums Mek. Verkstads A.-B.

Owners Stockholms Federi A.-B. Svea.

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

Residence Stockholm.

Port of Registry Stockholm.

If surveyed while building, afloat, or in dry dock Yes.

REGISTERED DIMENSIONS.

	FEET
Length	525.6'
Breadth	63.2'
Depth	38.9'

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.
FRAMES, Spacing amidships.....	Longitudinal.		Bracket Floors, Frame		
" " from 1/3 length amidships to Collision bulkhead.....	Framing ✓		" " Reversed Frame.....		
" " in E.R.	820 ✓		" " Vertical Struts		
" " in peaks dry tank	610 ✓		Centre Girder, depth and thickness amidships	E.R. 1240x.54" ✓	
SIDE FRAMING.			" " top Angles	2350x.50" ✓	
Frame Amidships, Angle, [or [See Report 1* ✓		" " bottom Angles.....	E.W. T. & B. ✓	
" " Extends up to.....			" " Side Girders, No. each side and thickness.....	4 .75" - .44" ✓	
Reversed Frame Amidships, Angle			Margin Plate depth (excl. of flange) and thickness		
" " Extends up to			" " Vertical Angle to Tank side		
Depth of Framing Girder.....			" " Bracket abaft 1/4 len. from stem	Tank top level	
Frames in Uppermost Continuous 'tween Decks, Angle, [or [" " Vertical Angle to Tank side	at sides. ✓	
" " Second 'tween Decks, Angle, [or [" " Bracket from forward 1/4 len. from stem to Panting Area		
" " Third			" " Gussets, spacing and scantling abaft 1/4 len. from stem.....		
" " from 1/2 len. for'd. to 15% len. from Stem			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " in Peaks, Angle or [Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships			INNER BOTTOM PLATING.		
State if Frame Joggled.....			Breadth and thickness of Middle Line Strake...	2280 x .57 ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	As per appr. ✓		Thickness of remainder in Holds	1.18 - .57 ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	plan ✓		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in Holds, in space and framing in Bulkheads and Boiler Room?	Yes. ✓	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds.....			Uppermost Continuous Deck, amidships in Wells, Angle, [or [
Height of Brackets at side above base line at toe of frame.....			" " in way of Bridge, Angle, [or [
Middle Line Keelson, on Floors, Angles, [or [" " Spacing		
" " Through Plate or Inter-costal Plate	As per ✓		Second Deck, amidships, Angle, [or [
" " Foundation Plate on Floors	approved plan ✓		" " Spacing		
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [or [See Report 1* ✓	
Side Keelsons, No. each side.....			" " Spacing.....		
" " thickness of Intercoastal Plate.....			Fourth Deck, amidships, Angle, [or [
" " Angles			" " Spacing.....		
DOUBLE BOTTOM.			Poop Deck, Angle, [or [
Solid Floors, thickness and spacing in E.R. .54" - .44" 820			" " Spacing.....		
" " Are Frame and Reversed Frame joggled?	Floors E.W. T. & B. ✓		Bridge Deck, Angle, [or [
Bracket Floors, breadth and thickness at middle line			" " Spacing.....		
" " breadth and thickness at margin plate.....			Forecastle Deck, Angle, [or [
			" " Spacing.....		

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. & POS.		6	3 1/2	3/8	✓							
Longitudinal Bhd. stiff.		2-3	7	4	3/8	✓						
" in between Decks, Size and Spacing		4	8	4	7/16	✓						
		5	8	4	1/2	✓						
		6	9	4	1/2	✓						
		7	9	4	9/16	✓						
" in Holds		8-10	215x9	190x15	✓	✓						
		11	215x9	190x15	✓	✓						
		12	220x10	190x16	✓	✓						
		13	250x10.5	210x16	✓	✓						
Centre Line Bulkhead		14	250x10.5	210x16	✓	✓						
Stiffeners and Spacing												
Plating, thickness of		.50 -		.39								
STRINGERS AND DECKS.												
Uppermost Continuous Deck.												
Stringer Plate, breadth and thickness in Wells		214 mm.		.80								
" " " in way of Bridge & at poop front				.92								
" Angle in Wells		E.W. to shell		✓								
Thickness of Plating abreast Deck openings				.72								
in way of Wells				.72								
Thickness of Plating abreast Deck openings				1.02								
in way of Bridge				Forwd.								
Thickness of Plating within line of openings		.72-54		✓								
If Sheathed, material and thickness		-		-								
Second Deck.												
Stringer Plate, breadth and thickness in Wells		.36 -		.40								
Stringer Plate, breadth and thickness in way of Bridge				.32 -								
Thickness of Plating abreast Deck openings				.32 -								
in way of Wells				.36								
Thickness of Plating abreast Deck openings				.34								
in way of Bridge				.34								
Thickness of Plating within line of openings				.34								
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				.34								
Oregon pine				.28 - .32								
Plating, Sheathing, material and thickness				.30 - .36								
Bridge Deck.												
Stringer Plate, breadth and thickness				.44								
Plating, Sheathing, material and thickness				.30 - .36								
Forecastle Deck.												
Stringer Plate, breadth and thickness				.38								
Plating, Sheathing, material and thickness				.36 - .38								
				.64 in way of hawse p								
				.50 " " " windlass								
				.36 - .38								

SHELL PLATING.

[illegible]

WATERTIGHT BULKHEADS.

FORGINGS AND CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		12	
Extending to Upper Deck (Sec. 3 c)		12 to upper deck.	
,, Deck next below		—	
As per Rule		—	

	Plating Thickness.	STIFFENERS. ins & mm.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
Centre tanks	✓	3 webs as		9x4x1/2	abt.
MIDSHIP BULKH'D, Upper Deck	51-.34	approved.		5x3x5/16	780
Side tanks	✓	1 web as		9x4x1/2	780
,,	51-.34	approved.		5x3x5/16	
,,					
,,					
,,					
COLLISION	51-.29	7x4x1/2	800	Fore peak tank	top
AFTER PEAK	46-.26	5x3x.312	800	6x4x.312	abt.

KEEL, Bar	Flat plate keel
STEM	Plate as approved cast as per Strömmens steel app. pl. mek. Verk.
STERN FRAME	Propeller Post steel app. pl. mek. Verk.
	Rudder Forged. 270 ✓ "
Speed of Vessel	15 knots. ✓
RUDDER—Type	Simple balanced. ✓
,, A × D.	1262 m ³ ✓
,, Diam. of head	300 ✓
,, Mainpiece at top pintle	
,, heel	
,, how constructed	
,, double or single plate coupling, vertical or horizontal	.59" ✓ Horizontal.

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)		Open Hearth.
	Appleby Frodingham, South Durham, Sedeco-Société Commerciale Forromet, Domnarfvets Jernverk, Sweden,		
	Bethlehem Steel, U.S.A., Carnegie Bisco, England, Ucometal, Motala Verkstad, Sweden, Degerfors Jernverk, Sweden.		
	Has the Steel been tested as required by the Rules?		Yes. ✓

EQUIPMENT No. 52816

LETTER f+✓

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.				
1858	1st Bower	4450	kgs.	✓	-			64.000	kgs.	✓	85.5/6	Halls patent stockless.	Skoda Works Nat. corp.	Pilsen	25.4.49. L.M.
1859	2nd "	4440	kgs.	✓	-			64.000	kgs.	✓	85.5/6	"	" "	"	25.4.49. L.M.
1857	3rd "	4435	kgs.	✓	-			64.000	kgs.	✓	85.5/6	"	" "	"	25.4.49. L.M.
Collective weight															
1860	Stream	1421	kgs.	✓	359	kgs.	✓	28.000	kgs.	✓	26.1/2	Admiralty	" "	"	25.4.49. L.M.

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.	
	Fathoms.	Diam.		Supplied.	Per Rule.	Fathoms.	Diam.					Fathoms.	Ins.		Fathoms.	Ins.
2494	300	2.1/4	70900 kgs. ✓	87.840 lbs.				C.S. Nat. Malle-able & steel Link (naco)	Sharon P.A. Castings Co.	N.M. & S. Co. Sharon P.A. 20.6.47. ATG. J.M.G. ✓	TOWLINE	1	130 mm	84.400	130	5 1/2
											HAWSERS & WARPS	4	100 mm	25.700	4-100	2.34
Iron Stream Chain or Steel Wire	1-120	127 mm.	70900 kgs. ✓			120	5"									

Steering Gear, Type (Power or hand) Electric Asea. ✓ Alternative Means of Steering Electric Asea ✓

g Chains (Size and Test) - Windlass Helsingborgs Varfs A/B Boats 4 (2 ord. 2 motor)

y cargo in/Holds, thickness and material None. ✓ Cargo Battens, thickness, material and spacing None. ✓

Forecastle deck steel coaming 11 mm. ✓ Steel cover .36 ✓

Hatchways.-(Upper Deck) " " 10 mm. ✓ Thickness of Hatches " " .46 ✓

Focle dk. Tanks Hatchways No. 1 (Fore) 3425 x 3400 No. 2 1525 x 1070 No. 3 - No. 4 - No. 5 - No. 6 -

r of Shifting Beams } or Fore and Afters }

Builder's Signature.

KOCKUMS
MEKANISKA VERKSTADS AKTIEBOLAG*Rut Holmström*
John Norden

AL 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. ✓
(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 (where required to be inserted in the Notation).

This ship has been built under Special Survey in conformity with the Society's Rules and regulations and
etary's letters. The scantlings and arrangements of the ship are as given in the report and as shown and amended
ne approved plans now forwarded. All modifications or additions to the original approved arrangements made during
truction have been indicated on the plans and have been approved as being in accordance with or by standards
valent to the Rule Requirements. The plans of the Midship Section and Profile and Decks showing the ship as built,
forwarded herewith, have been checked with the approved arrangements and found in order. The material and
manship are good. All cargo oil tanks, cofferdams, oil fuel bunkers and daily oil tanks, deep tank forward, all
artments in double bottom under motor space, peak tanks and fresh water tanks aft have been tested by water
sure as required by Rules. The deck and watertight bulkheads clear of tanks and cofferdams and shell plating of
Engine Room have been hose tested. The freeboard markings have been verified and cut in on the vessels sides. The
steering gear and windlass have been tested under working conditions with satisfactory results.

The vessel undocked on the 21st June, 1951. ✓

Freeboard
The amount of Entry Fee Kr. : 720: } Fees applied for,
Special Survey Fee Kr. 24.980: } 29/6 19 51.
Sunday Fees Kr. 200: } Received by me,
Travelling Expenses, if any £ : : } 19

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed *100A1
Carrying Petroleum in Bulk.

State whether the Vessel has been built under Special Survey Yes. ✓

Signature *James Young*
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to M a l m ö. Date of issue 27/7/51

Committee's Minute ✓ FRI. 20 JUL 1951

Character assigned +100A1 "Carrying Petroleum in bulk"

6.51 mm.
Lloyd's A & C.P.+LMC 6.51 Oil Eng.
C.L.

2 DB 17/16.

White (Hmo) (h)

note for S.R.L.

CLASSIFICATION
CERTIFICATES WRITTEN
020Lloyd's Register
Foundation

0205 2/3

411

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

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.)

Plans of vessel as built are forwarded herewith.

Midship Section.

Profile and Decks.

W.T. Bulkheads.

The approved plans are also forwarded herewith.

(Sister Ship Kockums Mek. Verkstad's Yard No. 326)

Midship Section.

Profile and plans.

Shell Expansion.

Bryggdäck med skott, webbar och barriär. (2 copies)

O.T. Bulkheads, Centre Girder Wash Bulkheads. (2 copies)

Fore end sections and Deep tank.

Oil fuel bunker.

Akterstäv.

Roder.

Hjärtstock.

After Peak. Sections and Plans.

Double bottom.

After end sections.

Platform in Motorroom between fr. 26-38.

Fore peak and collision bulkhead.

Arrangement of pumproom at fr. 52-53.

Gastight hatch in dry cargo hold.

Boiler seats.

Webs and bulkheads in tanks Nos.1,2,9 & 10 Principal dimensions.

Proposed arrangement of Longitudinals in crossbunker and in shell forw. and aft.

PARTICULARS OF ELECTRIC WELDING (if employed) Seams and butts of shell, deck, stringers, tank top and bulkhead plating are butt welded. Angle of "Vee" about 50°. All remaining connections are as per approved plan.

Electrodes:- O.K. 50, 52, ASEA Z.12, O.K. Rapid, Fusarc Electrode seamec.

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

RADAR fitted:- Yes.

Longitudinal framing, Electrically welded, cruiser stern, Machinery aft,

Type:- R.C.A. C.R.103

Carrying Petroleum in Bulk, D.F., E.S.D., Gyro, Radar.

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

1st Bower Shank:- 1355 kgs. L.M. 1858/231 14.1.49. Head:- 2790 kgs. L.M. 1858/278 7.3.49.

2nd „ Shank:- 1357 kgs. L.M. 1859/252 17.1.49. Head:- 2783 kgs. L.M. 1859/279 7.3.49.

3rd „ Shank:- 1350 kgs. L.M. 1857/244 14.1.49. Head:- 2784 kgs. L.M. 1857/265 17.1.49.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 95.1 ft., R.Q.D. — ft., Bridge 39.11 ft., Forecastle 67.2 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated —

Official No. 9251 Signal Letters SHBN Extreme Breadth over Belting 63'-2.20" Over-all Length 533'-3"

(Circ. 1611)

(Circ. 1703)

No. and Material of Decks 1 deck and 2nd deck clear of cargo tanks. Steel.

Parts of Bottom of Vessel coated with cement or approved composition Cement in peaks and fresh water tanks above A.P.T. also in well at aft end of E.R.

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.	Salt Water Capacity. Tons.	Where Fitted.	Length. Feet.	Salt Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	26.0	173
Double bottom, under Engines and Boilers,			After peak tank,	34.3	171
Double bottom, if under Engines only,	75	151	Deep tank, aft, Cross Bunker	8.9	485
Double bottom, if under Boilers only,			Deep tank, forward,	34.0	604
Double bottom, forward,			Other tanks, if fitted, above A.P.T.		131
Total length (if continuous) and Capacity			(If necessary furnish further information by sketch.)		

Order for Special Survey No. 159

Date 18/9-1946.

Dates of Surveys held while building

13,14,17,21,24,26,28,30/10, 2,6,8,10,13,23,27/11, 1,6,8,9,11,13,19,21,27/12-1950.
8,11,30/1, 1,5,10,14,19,22/2, 1,3,5,6,7,9,12,13,14,15,16,17,18,19,20,21,22,24,27,28,
29,30,31/3, 2,3,11,17,18,21/4, 2,9,23,26,29,31/5, 4,5,7,8,15,18,20,21/6-1951.

Total No. of Visits 76