

STEEL STEAMER or MOTORSHIP.

Received at London Office

2 JAN 1932

State 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 28th Dec. 1931 Port of Göteborg No. 8586

Survey held at Göteborg Date First Survey 9th June 1930 Last Survey 19th Dec. 1931

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) T.S.M.S. "ANNA KNUDSEN" machinery aft.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections Poop, Bridge & Ach.

TONNAGE under Tonnage Deck... 8402.60 CLASS +100 A.1. State if with freeboard as condition of Class No Built at Göteborg

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 470.0

Total Breadth (greatest moulded) B 64.25

Gross Tonnage 9056.96 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 35.33

Register Tonnage 5388.78 1st Longitudinal Number (L x D) = 16605

2nd Numeral L x (B + D) = 46802

REGISTERED DIMENSIONS. FEET.

Length 471.1 Framing Depth "d," at middle of length. See Sec. 3 (1d) 13.3

Breadth 64.4 Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.3

Depth 35.5 Draught Moulded 28.14

Launched 16th May 1931 Yard No. 442

Builders A.B. Götaverken

Owners Knut Knutsen O.A.S. m.p.v.

Managers per N1006

Residence Hangesund

Port of Registry Hangesund

If surveyed while building, afloat, or in dry dock Building afloat in dry dock

FRAMES, DOUBLE BOTTOM AND BEAMS.

	m.m. 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 <u>Longitudinal framing</u>				
" " <u>forward of fwd. Cofferdam</u>				
" " <u>from 1 length to Collision bulkhead</u> <u>725</u>				
" " in peaks <u>610</u>				
SIDE FRAMING.				
Frame Amidships, Angle, [or [..... <u>See plan</u>				
" " Extends up to <u>See plan</u>				
Reversed Frame Amidships, Angle <u>See plan</u>				
" " Extends up to... <u>See plan</u>				
Depth of Framing Girder <u>See plan</u>				
Frames in Uppermost Continuous 'tween Decks, Angle, [or [..... <u>See plan</u>				
" " Second 'tween Decks, Angle, [or [..... <u>See plan</u>				
" " Third " " " " <u>See plan</u>				
Framing in Peaks, Angle or [..... <u>See plan</u>				
Diameter and Spacing of Rivets through Frame and Shell Plating amidships <u>See plan</u>				
State if Frame Joggled <u>See plan</u>				
PANTING ARRANGEMENTS (Sec. 7), state system and particulars) <u>See plan</u>				
STRENGTHENING OF BOTTOM FORWARD. State Particulars <u>See plan</u>				
SINGLE BOTTOM.				
Floors, Depth and thickness at mid-line in Holds <u>See plan</u>				
Height of Brackets at side above base line at toe of frame <u>See plan</u>				
Middle Line Keelson, on Floors, Angles, [or [..... <u>See plan</u>				
" " Through Plate or Intercoastal Plate... <u>See plan</u>				
" " Foundation Plate on Floors <u>See plan</u>				
" " Flat Plate Keel Angles <u>See plan</u>				
Side Keelsons, No. each side <u>See plan</u>				
" " thickness of Intercoastal Plate... <u>See plan</u>				
" " Angles <u>See plan</u>				
DOUBLE BOTTOM, in Machinery Space				
Solid Floors, thickness and spacing <u>See plan</u>				
" " Are Frame and Reversed Frame joggled? <u>See plan</u>				
Bracket Floors, breadth and thickness at middle line <u>See plan</u>				
" " breadth and thickness at margin plate <u>See plan</u>				
Bracket Floors, Frame <u>See plan</u>				
" " Reversed Frame <u>See plan</u>				
" " Vertical Struts <u>See plan</u>				
Centre Girder, depth and thickness amidships <u>See plan</u>				
" " top Angles <u>See plan</u>				
" " bottom Angles <u>See plan</u>				
Side Girders, No. each side and thickness <u>See plan</u>				
Margin Plate depth (excl. of flange) and thickness <u>See plan</u>				
" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem <u>See plan</u>				
" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem <u>See plan</u>				
" " Gussets, spacing and scantling abaft 1/4 len. from stem <u>See plan</u>				
" " Gussets, spacing and scantling forward 1/4 len. from stem <u>See plan</u>				
Tank Side Brackets, height above base line at toe of Frame and thickness <u>See plan</u>				
INNER BOTTOM PLATING, in Machinery Space				
Breadth and thickness of Middle Line Strake <u>See plan</u>				
Thickness of remainder in Holds <u>See plan</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? <u>See plan</u>				
BEAMS.				
Uppermost Continuous Deck, amidships in Wells, Angle, [or [..... <u>See plan</u>				
" " in way of Bridge, Angle, [or [..... <u>See plan</u>				
Spacing <u>See plan</u>				
Second Deck, amidships, Angle, [or [..... <u>See plan</u>				
Spacing <u>See plan</u>				
Third Deck, amidships, Angle, [or [..... <u>See plan</u>				
Spacing <u>See plan</u>				
Fourth Deck, amidships, Angle, [or [..... <u>See plan</u>				
Spacing <u>See plan</u>				
Poop Deck, Angle, [or [..... <u>See plan</u>				
Spacing <u>See plan</u>				
Bridge Deck, Angle, [or [..... <u>See plan</u>				
Spacing <u>See plan</u>				
Forecastle Deck, Angle, [or [..... <u>See plan</u>				
Spacing <u>See plan</u>				

PILLARS AND DECKS.

	M.M. INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.			M.M. INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		
PILLARS , No. of Rows.....												
„ in 'tween Decks, Size and Spacing.....												
„ " " " "												
„ in Holds " "												
„ " " " "												
Centre Line Bulkhead.												
Stiffeners and Spacing.....	3A	✓	160 - 280	Pe plan								
Plating, thickness of		✓	11.5 - 10 - 14									
STRINGERS AND DECKS.												
Uppermost Continuous Deck.												
Stringer Plate, breadth and thickness in Wells		✓	1450 × 20									
" " " " in way of Bridge			"	✓ 25 at break								
" Angle in Wells	160	160	18.5	aff 150 × 150 × 20								
Thickness of Plating abreast Deck openings in way of Wells	✓	20										
Thickness of Plating abreast Deck openings in way of Bridge												
Thickness of Plating within line of openings...	✓	12										
If Sheathed, material and thickness												
Second Deck.												
Stringer Plate, breadth and thickness in Wells...	✓	1630 × 12										
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	✓	8.5	✓									
Plating, Sheathing, material and thickness ..	✓	6.5	2 1/2	08								
Bridge Deck.												
Stringer Plate, breadth and thickness.....	✓	1345 × 11										
Plating, Sheathing, material and thickness ..	✓	7.0	2 1/2	P.P.								
Forecastle Deck.												
Stringer Plate, breadth and thickness.....	✓	9.5										
Plating, Sheathing, material and thickness ..	✓	7.5	2 1/2	08								

SHELL PLATING.

SCANTLINGS.						RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?		No.		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. In. M.	inches. In. M.	inches. In. M.	inches. In. M.		inches. In. M.	inches. In. M.		inches. In. M.	inches. In. M.				
FLAT PLATE KEEL	1330	25.5	20.5	20.5		double	25	100	3	28	100	double straps		
„ DBLG. (if any)														
BOTTOM PLATING, No. of Strakes 4.....			18.0	16 15.0	13.0	17.5	double	22	90	4	22	90	lapped	
BILGE PLATING, No. of Strakes 2.....			18.0	13.0	14.5	17.5	"	"	upward edge F=80	"	"	"	"	
SIDE PLATING, No. of Strakes 3.....			17.5	13.0	14.0	17.5	"	"	80 both edges	"	"	"	"	
UPPER DECK, Sheer-strake in Wells.....	1400	25.5	13.0	12.0			"	25	100	3	28	126	double straps	
UPPER DECK, Sheer-strake in Bridge ...														
STRAKE BELOW Sheer-strake in Wells.....	2000	20.5	13.0	13.0			"	22	80	4	25	100	lapped	
STRAKE BELOW Sheer-strake in Bridge ...														
POOP SIDE PLATING				12-10.5			single	22	90	2	22	80	lapped	
BRIDGE SIDE PLATING ...		13+11					"	"	"	3+2	"	"	lapped	
FORECASTLE SIDE PLATING				11			"	"	"	1	"	"	lapped	

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) 10

" Deck next below 7

As per Rule 7.

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHD, Upper tween decks					
" " Second "					
" " Third "					
" " Holds	9.5-14.0	2x10.5	19ft.	BA.	200-300
COLLISION " (in Hold)	9.0-12.0	200x90x10.5	610	34x10.5 guides	2 decks
AFTER PEAK " "	7.5-12.0	150, 250x	610	24x10.5 guides	

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		Flat plate Keel		
STEM	Rolled bar	265x70	Withnall & Bergman and Eisenhütten-Ges. in Withnall	
STERN FRAME { Propeller Post				
{ Rudder "	Casting	290x86	A.B. Lindholmen-Motala	
RUDDER—A x D		16.94 M		
Speed of Vessel		11.5		
RUDDER mainpiece at head ...		348	A.B. Lindholmen-Motala	
" " heel ...		260		
" how constructed		Built, Arms Shrink skayed on.		
" double or single plate		Single		
" 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)

Buckhoffnungshütte; Société Anonyme John Cockerill; Société Anonyme d'Atchus Brivegnée; Vereinigte Stahlwerke; Usines Metallurgiques du Hamant Société Anonyme à Couillet; Carrsett Iron Works

Has the Steel been tested as required by the Rules? Yes.

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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.)

There are copies of the following Plans in the London Office:—

- Midship Section
- Profile & deck plans
- Shell Expansion
- Fuel oil bunkers & Cofferdam
- Aft Peak.
- Boss Casting
- For Cofferdam
- Scarping of longitudinal
- Poop & Forecastle decks
- Double bottom & Engine seats
- Stem Frame & Rudder
- Web frames in Engine Room
- Outline at break

The following Plans are now forwarded:—

- For Peak & Deep Tank.
- Midship Section as built
- Profile & decks
- Forging & Casting reports.

The following fairboards have been marked on the vessels sides by the Norske Veritas:

Summer	7'-3"	from statutory deck line at level of top of stringer plate (upper deck)
F.T.	15"	above centre of disc
F	8"	" " "
T	7"	" " "
V	7"	below " " "
V.N.A.	11½"	" " "

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

1st Bower	50-0-10; M.B.; 8666; 12/9/30
2nd "	51-2-22; K.H.; 8820; 28/11/30
3rd "	50-3-27; K.H.; 9121; 19/3/31

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 100.0 ft., R.Q.D. / ft., Bridge 70.3 ft., Forecastle 46.0 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 dks (sic) and web frames

Official No. ; Signal Letters L.K.B.T.

Is bottom of Vessel coated with cement part. if not give

particulars of composition 7.6. Tank in D.B. & Fore & Aft Peaks.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank, 4.8	29.0	210
Double bottom, under Engines and Boilers,			After peak tank, 4.8	20.0	80
Double bottom, if under Engines only, 4.8 x 19.8	67.0	285	Deep tank, aft, 4.8	12.0	55
Double bottom, if under Boilers only,			Deep tank, forward, 4.8	38.0	43
Double bottom, forward,			Other tanks, if fitted, 4.8	13.0	90

Total length of double bottom = 67.0

Order for Special Survey No. 178

Date 1st Nov. 1929

Dates of Surveys held while building

1929: Jan. 9. 14. 18 July 1. 3. 7. 11. 18. 28 Aug. 12. 15. Sept. 25. 9. 18. 22. 25. 29 Oct. 6. 7. 8. 9. 13. 14. 16. 17. 20. 23. 28 Nov. 15. 13. 19. 20	1931: Jan. 7. 8. 13. 19. 20. 21. 27. Feb. 5. 6. 9. 11. 13. 16. 17. 19. 23. 26. March 3. 4.	1932: Jan. 12. 17. 19. 20. 21. 27. 30. 31. April 2. 7. 8. 10. 13. 14. 16. 18. 20. 21. 22. 27. 29. May 2. 4. 6. 9. 11. 12. 13. 15. 18. 19. June 5. 11. 12. 15. 16. 17. 18. 19. 20. 30. July 1. 6. 17. 22. 23. 24. 27. 28. 29. 30. 31. Aug. 5. 7. 8. 12. 13. 14. 15. 16. 17. 18. 19.
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Total No. of Visits

M.S. "ANNA KNUDSEN"
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.
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	Diam.	Speng.	
of $\frac{1}{2}$ [and $\frac{1}{2}$]															
Bridge 'tween Decks ...	180	75	8	Transverse framing in Peep's file			180	75	8	Transverse framing in Peep's file			22	135	16 22
om Uppermost Continuous No. 1	200	90	11	F. 180	90	10	200	90	11	F. 180	90	10	25	150	18 "
" 2	do	do	do	A. 180	90	10	do	do	do	A. 180	90	10	"	"	19 "
" 3	200	90	13	F. 200	90	10.5	200	90	13	F. 200	90	10.5	22	135	18 "
" 4	230	90	11	A. 200	90	10	230	90	11	A. 200	90	9.5	"	"	19 "
" 5	250	90	11	F. 230	90	11	250	90	11	F. 230	90	11	"	"	10 "
" 6	do	do	do	A. 230	90	11	do	do	do	A. 230	90	10	"	"	10 "
" 7	250	90	12	F. 250	90	11.5	250	90	12	F. 250	90	11.5	"	"	11 "
" 8	250	90	14	A. 250	90	12	250	90	14	A. 250	90	12	"	"	11 "
" 9	280	90	12	F. 280	90	13	280	90	12	F. 280	90	13	"	"	11 "
" 10	300	90	13.5	A. 280	90	12	300	90	13.5	A. 280	90	12	"	"	12 "
" 11	350 x 14 x 100 x 16			Transverse framing			350 x 14 x 100 x 16			Transverse framing			"	"	EXTRA → 12 "
" 12	do.			do			do			do			"	"	"
" 15	do.			do			do			do			"	"	"
" 16	Intercostal girder			Intercostal girder			Intercostal girder			Intercostal girder			"	"	100mm spacing
" 17	350 x 14 x 100 x 16			350 x 14 x 100 x 16			350 x 14 x 100 x 16			350 x 14 x 100 x 16			22	135	10/11/9 @ 80 14/8 22
" 20	do.			do.			do.			do.			"	"	"
Amidships	915						915								
At Ends	915						915								* 100 mm in long. in bottom of breast tank
Tank Top Longitudinals															
Bottom "															
Longitudinals { Amidships															
At Ends...															
Transverses.															
Depth and Thickness	400 x 9.5			Transverse framing in Peep's file			400 x 9.5			Transverse framing in Peep's file					
Face Angles	90 flange			90 flange			90 flange			90 flange					
Lugs to Shell* joggled	90	90	10				90	90	10				22	100	
Depth and Thickness	495 x 10			F. 350 x 10			495 x 10			F. 350 x 10					
Face Angles	90	90	10.5	A. 450 x 10			90	90	10.5	A. 450 x 10					
Lugs to Shell* joggled	90	90	10	F. 90	90	10	90	90	10	F. 90	90	10	22	100	
Depth and Thickness	1320 x 12			A. 90	90	10	1320 x 12			A. 90	90	10			
Face Angles	90	90	12.5	F. 750 x 12			90	90	12.5	F. 750 x 12					
Lugs to Shell* joggled	150	150	12	A. 850 x 12 1/2 600 x 11			150	150	12	A. 850 x 12 1/2 600 x 11					
Depth and Thickness	1320 x 12			F. 90	90	12 JL	1320 x 12			F. 90	90	12 JL			
Face Angles	90	90	12.5	A. 90 x 150 x 90 x 90 JL			90	90	12.5	A. 90 x 150 x 90 x 90 JL					
Lugs to Shell* joggled	150	150	12	F. 150	150	12	150	150	12	F. 150	150	12	22	100	
" " Back Bars ...	1370 x 10.5			A. 150	150	12	1370 x 10.5			A. 150	150	12			
Brackets	2970 x 1715 x 12			F. 150	150	12	2970 x 1715 x 12			F. 150	150	12			
Transverse Frames	3000/2380/3000			A. 2740 x 2600			3000/2380/3000			A. 2740 x 2600					
Bridge Deck ...	150	75	8				150	75	8						
Upper "	180	90	10	F. 165	75	9	180	90	10	F. 165	75	9	915	825	
Second "	200	75	9.5	A. 165	75	9	200	75	9.5	A. 165	75	9	915	825	
Third "															

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.
 Note: Midship scantlings are between Cofferdams: Aft end scantlings are in Machinery Spaces fore end scantlings are in Fore Dry Cargo hold.

002471-002476-0045 23

Length. 29.0
 Feet. 20.0
 12.0
 Water Cap. 210
 Tons. 80
 55
 Main Engines crank shafts, diameter
 as per 170 mm
 140 mm
 Section an
 234
 No. 3
 Position — Fore on port side on starb. side in eng. space