

## STEEL STEAMER or MOTORSHIP.

FEB 11 1939

Received at London Office

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*Date of completion of report *9th February, 1939*Port of *Gothenburg*No. *12218*Survey held at *Gothenburg*Date First Survey *30th June 1938*Last Survey *31st January*

1939

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single Screw Motorship "TRONDHEIM".*

Machinery fitted aft.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full scantling. Carrying Petroleum in Bulk.*State Type of Erections *Prop, Bridge & F.C. le.*TONNAGE under Tonnage Deck... *7561.76*

CLASS

State if with freeboard as condition of Class

Built at *Gothenburg*

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

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) *L 465'-2"*

FEET.

Launched *2nd November 1938* Yard No. *287*Breadth (greatest moulded) *B 60'-9"*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 34'-0"*D FOR NUMERALS *33.2*1st Longitudinal Number (L x D) = *15444*2nd Numeral L x (B + D) = *43702*Builders *Enkelsbergs Mek. Verkstads A.B.*Owners *A/S Tank*Managers *Eyvind Matheson*  
(Where necessary to be entered in Reg. Book.)Residence *Oslo*Port of Registry *Oslo*

If surveyed while building, afloat, or in dry dock

*Building, afloat and on floating dock.*

## REGISTERED DIMENSIONS.

FEET.

Length *469.2*Breadth *61.1*Depth *34.5*

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

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

Do. Long Bridge to top of keel

Draught Moulded *26'-7 7/8"*

## 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.
<b>FRAMES, Spacing amidships</b> <i>Forward end of No 1 tank,</i>	800 ✓		<b>Bracket Floors, Frame</b>	✓	
" " <i>from 3 length amidships to Collision bulkhead</i>	685 ✓		" " <b>Reversed Frame</b>	✓	
" " <i>in peaks</i>	605 ✓		" " <b>Vertical Struts</b>	✓	
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b> <i>Double</i>	1170 x 11 1/2 ✓	
<b>Frame Amidships, Angle, E or F</b>	280 90 12 ✓		" " <b>top Angles</b>	90 90 12 1/2 ✓	
" " <i>Extends up to</i> <i>Long. Bldgs</i>	✓		" " <b>bottom Angles</b>	5 1/2 in. cont. well both sides ✓	
<b>Reversed Frame Amidships, Angle, E or F</b>	280 90 12 ✓		<b>Side Girders, No. each side and thickness</b>	32 19, 15 & 10 1/2 ✓	
" " <i>Extends up to</i> <i>Upper Deck</i>	✓		<b>Margin Plate</b> depth (excl. of flange) and thickness	Tank top extended to shell 13 in. ✓	
<b>Depth of Framing Girder</b>	✓		" " <b>Vertical Angle to Tank side</b>	✓	
<b>Frames in Uppermost Continuous 'tween Decks, Angle, E or F</b>	✓		" " <b>Bracket abaft 1/2 len. from stem</b>	✓	
" " <b>Second 'tween Decks, Angle, E or F</b>	✓		" " <b>Vertical Angle to Tank side</b>	✓	
" " <b>Third</b>	✓		" " <b>Bracket from forward 1/2 len. from stem to Panting Area</b>	✓	
" <b>from 1/2 len. for'd. to 15% len. from Stem</b>	280 90 12 ✓		" " <b>Gussets, spacing and scantling abaft 1/2 len. from stem</b>	✓	
" <b>in Peaks, Angle or F</b>	AFTER PEAK 200 90 10 1/2 ✓ FORE PEAK 200 90 12 1/2 ✓		" " <b>Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area</b>	✓	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	22 2 135 ✓ (25 Ø 150 in sheer strake and strake below).		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	As per app. plan ✓	
<b>State if Frame Joggled</b>	Yes ✓		<b>INNER BOTTOM PLATING.</b>		
Are the scantlings and arrangements in the <b>Panting Area</b> in accordance with the Rules and/or as approved?	Yes ✓		<b>Breadth and thickness of Middle Line Strake</b>	2696 x 13 ✓	
Are the scantlings and arrangements in way of the <b>Bottom Forward</b> in accordance with the Rules and/or as approved?	Yes ✓		<b>Thickness of remainder in Holds</b>	13 ✓	
<b>SINGLE BOTTOM.</b>			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 ✓	
<b>Floors, Depth and thickness at mid-line in Holds</b>	✓		<b>BEAMS.</b>		
<b>Height of Brackets at side above base line at toe of frame</b>	✓		<b>Uppermost Continuous Deck, amidships</b> <i>in Wells, Angle, E or F</i>	200 x 90 x 10 Centre ✓ 200 x 90 x 10 Sides ✓	
<b>Middle Line Keelson, on Floors, Angles, E or F</b>	✓		" " <b>in way of Bridge, Angle, E or F</b>	✓	
" " <b>Through Plate or Intercoastal Plate</b>	1700 x 12 1/2 ✓		<b>Spacing</b>	800 ✓	
" " <b>TOP BULB ANGLE</b>	200 x 90 x 12 DOUBLE ✓		<b>Second Deck, amidships, Angle, E or F</b>	✓	
" " <b>TO KEEL PLATE</b>	9 in. cont. well both sides ✓		<b>Spacing</b>	✓	
" " <b>Flat Plate Keel Angles</b>	60 in. ✓		<b>Third Deck, amidships, Angle, E or F</b>	✓	
<b>Side Keelsons, No. each side</b>	One in centre tanks ✓		<b>Spacing</b>	✓	
<b>DEPTH AND THROUGH thickness of Intercoastal Plate</b>	1700 x 12 1/2 ✓		<b>Fourth Deck, amidships, Angle, E or F</b>	✓	
<b>TOP BULB ANGLE</b>	280 x 90 x 14 1/2 SALE ✓		<b>Spacing</b>	✓	
<b>Angles TO BOTTOM PLATING</b>	5 1/2 in. cont. well both sides, 9 in. for 3 frame spaces beyond bulkheads ✓		<b>POOP DECK, Angle, E or F</b>	230 x 90 x 12 ✓ 200 x 75 x 12 ✓ 200 x 75 x 11 ✓ 800 - 605 ✓	
<b>DOUBLE BOTTOM. (IN MOTOR ROOM)</b>			<b>Bridge Deck, Angle, E or F</b>	230 x 90 x 11 ✓ 800 ✓	
<b>Solid Floors, thickness and spacing</b>	10 1/2 every frame, 12 1/2 W.T. ✓		<b>Spacing</b>	✓	
" " <b>Are Frame and Reversed Frame joggled?</b>	Frames only ✓		<b>Forecastle Deck, Angle, E or F</b>	200 75 10 ✓ 180 75 10 ✓ 685 - 605 ✓	
<b>Bracket Floors, breadth and thickness at middle line</b>	✓		<b>Spacing</b>	✓	
" " <b>breadth and thickness at margin plate</b>	✓				

## PILLARS AND DECKS.

	INSIDE IN SHIP. <i>m</i>	Any Departure from Approved Plans to be Noted.		INSIDE IN SHIP. <i>m</i>	Any Departure from Approved Plans to be Noted.
<b>PILLARS</b> , No. of Rows.....	✓		<b>BEAMS IN WAY OF HORIZONTAL GIRDERS</b>		
„ in 'tween Decks, Size and Spacing.....	✓		Stringer Plate, breadth and thickness in way of Bridge .....	6' 180 x 90 x 10	L 200 x 90 x 10
„ „ „ „ „	✓		Thickness of Plating abreast Deck openings in way of Wells .....	✓	
„ in Holds „ „	✓		Thickness of Plating abreast Deck openings in way of Bridge .....	✓	
2 <b>LONGITUDINAL</b> <b>Centre Line Bulkhead.</b>	✓		Thickness of Plating within line of openings...	✓	
Stiffeners and Spacing.....	Channels 260 x 10 x 90 x 14 @ 800 ✓		If Sheathed, material and thickness .....	✓	
Plating, thickness of .....	13, 11½, 10½, 10, 9½, 10 (top) ✓		<b>Third Deck.</b>		
<b>STRINGERS AND DECKS.</b>			Stringer Plate, breadth and thickness.....	✓	
<b>Uppermost Continuous Deck.</b>			If Plated, state thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	2100 x 21½ - 11 27 at breaks. ✓		<b>Fourth Deck.</b>		
„ „ „ „ in way of Bridge	✓		Stringer Plate, breadth and thickness.....	✓	
„ Angle in Wells .....	160 x 160 x 22 To 90 x 90 x 11 ✓		If Plated, state thickness .....	✓	
Thickness of Plating abreast Deck openings in way of Wells .....	20 - 9		<b>Poop Deck.</b>		
Thickness of Plating abreast Deck openings in way of Bridge .....	✓		Stringer Plate, <del>breadth and</del> thickness .....	9 ✓	
Thickness of Plating within line of openings...	{ 12 - 9 ✓ 20 - 9 centre stake ✓		Plating, Sheathing, material and thickness ...	6½, oregon pine, 2½" ✓	
If Sheathed, material and thickness .....	✓		<b>Bridge Deck.</b>		
<b>HORIZONTAL GIRDERS IN SIDE TANKS</b>			Stringer Plate, breadth and thickness.....	1695 x 10 ✓	
<b>Second Deck.</b>	No. Two ✓		Plating, Sheathing, material and thickness {	8½ ✓ Deck composition	
Stringer Plate, breadth and thickness in Wells...	1150 x 10 ✓		<b>Forecastle Deck.</b>		
Welded to shell and bulkheads. ✓			Stringer Plate, <del>breadth and</del> thickness.....	9½ ✓	
			Plating, <del>Sheathing, material and</del> thickness ...	9 ✓	

## SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?			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.			
FLAT PLATE KEEL .....	<i>2130</i>	<i>24</i>	<i>20</i>	<i>20</i>		<i>Double</i>	<i>25</i>	<i>7 2/100</i>	<i>Butts electrically welded.</i>	<i>✓</i>				
„ DBLG. (if any)		<i>✓</i>												
BOTTOM PLATING, No. of Strakes .....		<i>17 1/2</i>	<i>19 1/2</i> <i>20 1/2</i>	<i>12 1/2</i>		<i>“</i>	<i>22</i>	<i>8 289</i>	<i>✓</i>	<i>— “ —</i>				
BILGE PLATING, No. of Strakes .....		<i>17 1/2</i>	<i>12 1/2</i>	<i>12 1/2</i>		<i>“</i>	<i>22</i>	<i>9 280</i>	<i>✓</i>	<i>— “ —</i>				
SIDE PLATING, No. of Strakes .....		<i>16 1/2</i>	<i>12</i>	<i>12</i>		<i>“</i>	<i>22</i>	<i>9 280</i>	<i>✓</i>	<i>— “ —</i>				
UPPER DECK, Sheer- strake in Wells .....	<i>1920</i>	<i>24</i>	<i>12</i>	<i>12</i>		<i>}</i>								
UPPER DECK, Sheer- strake in Bridge ...		<i>28 at breaks</i>					<i>25</i>	<i>8 289</i>	<i>✓</i>	<i>— “ —</i>				
STRAKE BELOW Sheer- strake in Wells .....	<i>2100</i>	<i>19 1/2</i>	<i>12</i>	<i>12</i>										
STRAKE BELOW Sheer- strake in Bridge ...		<i>✓</i>												
POOP SIDE PLATING .....				<i>10</i>		<i>Single</i>	<i>19</i>	<i>75</i>	<i>✓</i>	<i>1 R.</i>	<i>19</i>	<i>65</i>	<i>Lapped</i>	
BRIDGE SIDE PLATING ...		<i>11</i>				<i>“</i>	<i>25</i>	<i>112</i>	<i>✓</i>	<i>“</i>	<i>19</i>	<i>75</i>	<i>✓</i>	<i>— “ —</i>
FOREC'TLE SIDE PLATING			<i>11</i>			<i>“</i>	<i>19</i>	<i>75</i>	<i>✓</i>	<i>“</i>	<i>19</i>	<i>65</i>	<i>✓</i>	<i>— “ —</i>

## WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		12 (+4 in centre tanks only).		✓	
Extending to Upper Deck (Sec. 3 c)		11 (+4 " " " " ).		✓	
" Deck next below		1			
As per Rule		7			
		STIFFENERS.			
Plating Thickness.		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks					
"	" Second "				
"	" Third "				
"	" Holds .....	13-10	I welded 250x90x12½	840	2 horizontal girders.
COLLISION (in Hold) .....		11½-6½	5 165x75x8	610	3 horizontal girders and deep tank top.
AFTER PEAK					
UPPER PART		7½	5 150x75x8	610	1 horizontal girder
LOWER PART		13	v	v	5 150x75x10

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Carnegie - Skirvis Steel Co.; Bethlehem Steel Co.; Luhe's Steel Co.; Mannesmann-Röhren-Werke; Stahlunion, Thyssen-Werke; Dammerfjords Jernværk; Kön. ung. Stahl- und Eisenwerke, Sziggyön. Open hearth process.*  
Has the Steel been tested as required by the Rules? *Yes. ✓*



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.)

Sister vessels: Enslberg's No 258 "Alexandra Hoegh", 262 "Kollgrin", 263 "Tinneröy", 264 "Kallbjör", 271 "Jotunfjell", 277 "Solör", 283 "Gard".

Approved plans now forwarded:

Midship Section.  
Longitudinal Section and Plans.  
Stem frame and rudder.  
Fore end.  
After end.  
Double bottom in engine room.  
Hatch to dry cargo hold.  
Hatches to cargo tanks.  
Main Quadrant.  
Pinion with shaft.  
Steering arrangement with blocks and tackle.

As fitted plans now forwarded:

Midship Section.  
Longitudinal Section and Plans.  
Double bottom in engine room.

Certificates now forwarded: (4 certificates).

Stem frame. Rudder frame, rudder head, pintles. Rudder quadrant. Windlass.

Particulars of the Swedish Tonnages are:

Under deck: 6294.38  
Gross: 8257.82  
Net: 4950.97

PARTICULARS OF ELECTRIC WELDING (if employed) Butts of shell and upper deck plating, transverse bulkheads in cargo tanks and cofferdams, bottom girders to shell (also butts of same girders), horizontal girders in cargo tanks and cofferdams to shell and bulkhead plating. Centre girder in double bottom to keel stake, also side girder nearest to centre line in same double bottom to bottom plating and floors to same side girder and centre girder. Tank top of double bottom to shell and to side bottom girder. Pump room entrance amidships. Gangway. Coamings of cargo hatches. ✓

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Carrying Petroleum in Bulk. Butts of shell and upper deck plating electrically welded. Machinery fitted aft. Cruiser stem. Fitted with wireless and direction finding apparatus. (Heating coils not fitted in the cargo tanks).

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	Head: 48.0:4 into J.Q. 1151. 28.7.38	Shank: 26.0:1 into J.Q. 1155. 28.7.38
	2nd "	50.2:9 " " 1152. " "	25.0:11 " " 1157. " "
	3rd "	49.2:10 " " 1153. " "	25.1:21 " " 1156. " "
	Stream:	22.0:21 " " 1154. " "	

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 92.0 ft., R.Q.D. v ft., Bridge 28.3 ft., Forecastle 40.7 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated. ✓

Official No. v Signal Letters LKCA Extreme Breadth over Belting v Over-all Length 486.25 ft. ✓

No. and Material of Decks 1 Deck (Steel) ✓

Parts of Bottom of Vessel coated with cement or approved composition Cement in F.W. double bottom tanks and in fore peak. ✓

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	CUB. METRES.		Feet.	CUB. METRES.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engine and Boilers, O.F. or W.B. 86.0	67.8	168.0	After peak tank,	O.F. or W.B. 23.8	140.0
Double bottom, under Engine only, FEED WATER 50.0	INCLUD. 170.0		Deep tank, aft,	Gross bunker. O.F. 10.5	560.0
Double bottom, under Boilers only, LUBR. OIL 32.0	RB		Deep tank, forward,	O.F. or W.B. 22.5	492.0
Double bottom, forward,			Other tanks, if fitted,		
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 258

Date

14th June 1937

Dates of Surveys held while building

1938: June 30. July 1. 4. 5. 6. 12. 18. 20. 29. Aug. 1. 3. 5. 8. 13. 15. 26. 30. Sept. 6. 7. 14. 15. 21. 27. 30. Oct. 3. 6. 10. 13. 18. 21. 22. 24. 25. 26. 28. Nov. 1. 2. 7. 9. 16. 18. 23. 24. 25. 30. Dec. 3. 5. 6. 13. 19. 21. 22. 23.  
1939: January 2. 4. 5. 9. 10. 11. 12. 13. 14. 15. 17. 18. 19. 24. 26. 27. 28. 30. 31.

Total No. of Visits

72