

STEEL STEAMER or MOTORSHIP.

13 NOV 1930

Received at London Office...

State if Report has been sent on the Freeboard of the Vessel NoState if Report is sent on the Machinery of the Vessel Yes

Date of completion of report

17. 11. 30

Port of GlasgowNo. 51000

Survey held at

Glasgow

Date First Survey

11. 12. 29

Last Survey

11 November

1930

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

Steel Single Screw Motor Vessel "NORFOLD"

(Machinery aff.)

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

Full ScantlingState Type of Erections Poop, Bridge & etc.

TONNAGE under Tonnage Deck...

5996.09CLASS +100 A1

State if with freeboard as condition of Class

No

Built at

Glasgow

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

6369.53

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

L 420.0Launched 23 September 1930 Yard No. 642

Total

Breadth (greatest moulded)

B 58.27Builders Bainy Line & Co. Ltd.

Gross Tonnage

6369.53

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

D 32.25Owners HVALFANGERAKTIESELSKABET - VESTFOLD

Register Tonnage

3830.321st Longitudinal Number (L x D) = 13545

Managers

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) = 38018Residence Sandefjord Norway

REGISTERED DIMENSIONS.

FEET.

Length

421.0

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

19.42

Breadth

58.5

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

13.02

Depth

32.3

Do. Long Bridge to top of keel

25'-3 5/8"

Draught Moulded

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	<u>Longitudinal Framing</u>		Bracket Floors, Frame	<u>✓</u>	
" " from $\frac{3}{4}$ length to Collision bulkhead	<u>27</u>		" " Reversed Frame	<u>✓</u>	
" " in peaks	<u>24</u>		" " Vertical Struts	<u>✓</u>	<u>bb</u>
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<u>68 x .50</u>	<u>68 x .54 = .44</u>
Frame Amidships, Angle, E or F	<u>11 3 1/2 .40</u>		" " top Angles	<u>4 4 .52</u>	<u>3 1/2 x 3 1/2 = .52 = .48</u>
" " Extends up to	<u>Tank Top</u>		" " bottom Angles	<u>3 1/2 3 1/2 .48</u>	<u>3 1/2 x 3 1/2 = .42</u>
" " <u>ap</u>			Side Girders, No. each side and thickness	<u>Two 66, 75 = .42</u>	<u>One @ .40</u>
Reversed Frame Amidships, Angle	<u>10 3 1/2 .43</u>		Margin Plate depth (excl. of flange) and thickness	<u>Level .56</u>	<u>.52</u>
" " Extends up to	<u>Upper Deck</u>		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	<u>6 6 .44</u>	
Depth of Framing Girder	<u>11 5 10</u>		" " Vertical Angle to Tank side Bracket forward $\frac{1}{2}$ len. from stem	<u>✓</u>	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	<u>✓</u>		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	<u>✓</u>	
" " Second 'tween Decks, Angle, E or F	<u>✓</u>		" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem	<u>✓</u>	
" " Third " " " "	<u>✓</u>		Tank Side Brackets, height above base line at toe of Frame and thickness	<u>9'-0"</u>	
Framing in Peaks, Angle, E or F	<u>8 3 1/2 .38</u>		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<u>7/8 @ 5 1/2</u>		Breadth and thickness of Middle Line Strake	<u>83 x .70</u>	<u>.50</u>
State if Frame Joggled (Frame)	<u>Yes</u>		Thickness of remainder in Holds	<u>1 1/8 and .56</u>	<u>.50</u>
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	<u>as per app. 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>Yes</u>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<u>3 Strake tan shell & thickness frames as approved</u>		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships	<u>8 3 .48</u>	
Floors, Depth and thickness at mid-line in Holds	<u>4 1/2 x .40</u>		" " in way of Bridge, Angle, E or F	<u>✓</u>	
Height of Brackets at side above base line at toe of frame	<u>6'-8"</u>		" " Spacing	<u>27 to 24</u>	
Middle Line Keelson, on Floors, Angles, E or F	<u>Butt Strake .48</u>		Second Deck, amidships, Angle, E or F	<u>10 3 1/2 .42</u>	
" " Through Plate or Intercoastal Plate	<u>✓</u>		" " Spacing	<u>30 to 24</u>	
" " Foundation Plate on Floors	<u>✓</u>		Third Deck, amidships, Angle, E or F	<u>✓</u>	
" " Flat Plate Keel Angles	<u>4 4 .5</u>		" " Spacing	<u>✓</u>	
Side Keelsons, No. each side	<u>Two</u>		Fourth Deck, amidships, Angle, E or F	<u>✓</u>	
" " thickness of Intercoastal Plate	<u>.40</u>		" " Spacing	<u>✓</u>	
" " B. Angles	<u>8 3 .48</u>		Poop Deck, Angle, E or F	<u>8 x 3 = .45 = .48</u>	
DOUBLE BOTTOM. in head Space			" " Spacing	<u>30 to 24</u>	
Solid Floors, thickness and spacing	<u>.50 @ 30" .40</u>		Bridge Deck, Angle, E or F	<u>6 3 .36</u>	
" " Are Frame and Reversed Frame joggled?	<u>Yes</u>		" " Spacing	<u>25 1/2 to 31 1/2</u>	
Bracket Floors, breadth and thickness at middle line	<u>✓</u>		Forecastle Deck, Angle, E or F	<u>9 3 1/2 .45</u>	
" " breadth and thickness at margin plate	<u>✓</u>		" " Spacing	<u>27 to 24</u>	

			INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.				INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....			✓		Stringer Plate, breadth and thickness in way of Bridge			79	✓ 44
,, in 'tween Decks, Size and Spacing.....			✓		Thickness of Plating abreast Deck openings) in way of Wells			✓ 42	
,, " " " " "			✓		Thickness of Plating abreast Deck openings) in way of Bridge			✓ 42	
,, in Holds " "			✓		Thickness of Plating within line of openings...			✓ 42	
,, " " " " "			✓		If Sheathed, material and thickness			✓	
Centre Line Bulkhead.			111	35 143	Third Deck.				
Stiffeners and Spacing..... 26' x 36' L			7	3 1/2 33	Stringer Plate, breadth and thickness.....			✓	
Plating, thickness of			50	1/6 37	If Plated, state thickness.....			✓	
STRINGERS AND DECKS.					Fourth Deck.				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....			✓	
Stringer Plate, breadth and thickness in Wells			75	x 61	If Plated, state thickness			✓	
,, " " " " in way of Bridge			75	x 72	Poop Deck.				
,, Angle in Wells			6	6 64	Stringer Plate, breadth and thickness			55 1/2	x 36
Thickness of Plating abreast Deck openings) in way of Wells			53		Plating, Sheathing , material and thickness ...			30	
Thickness of Plating abreast Deck openings) in way of Bridge			53		Bridge Deck.				
Thickness of Plating within line of openings...			53		Stringer Plate, breadth and thickness.....			41	x 42
If Sheathed, material and thickness			✓		Plating, Sheathing , material and thickness ...			32	
Second Deck.					Forecastle Deck.				
Stringer Plate, breadth and thickness in Wells...			79	x 44	Stringer Plate, breadth and thickness.....			77	x 36
					Plating, Sheathing , material and thickness ..			34	

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. 70			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	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.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	5½	.93	.78	.72		Double	1	4	Five	1	4½	Lapped	
„ DBLG. (if any)	r	r	r	r									
ARC	80												
BOTTOM PLATING, No. of Strakes Four	82	.61	.52	.51		Double	7/8	3½	Four	7/8	3½	Lapped	
BILGE PLATING, No. of Strakes ONE	79	.61	.49	.51		„	„	„	„	„	„	„	
SIDE PLATING, No. of Strakes THREE	81	.59	.46	.50		„	„	„	Three	„	3/8	„	
UPPER DECK, Sheer-strake in Wells.....	84	.87	.46	.46		„	1	4	Five	1	4½	„	
UPPER DECK, Sheer-strake in Bridge 4	58	1.03	„	„		„	1½	4½	Five	1½	5½	„	
STRAKE BELOW Sheer-strake in Wells.....	78	.71	.46	.46		„	7/8	3½	Four	1	4	„	
STRAKE BELOW Sheer-strake in Bridge 3	78	.71	„	„		„	„	„	„	1	4	„	
POOP SIDE PLATING	85	„	„	.39		Single	1½	2 @ 5½	Two	¾	2½	„	
BRIDGE SIDE PLATING ...	96	.42	„	„		Treble	1	1 @ 4	Two	„	„	„	
FOREC'TLE SIDE PLATING	52	„	.42	„		Single	7/8	3½	One	„	„	„	

Total No. of W.T. BULKHEADS in Vessel—	<i>Fifteen</i>
Extending to Upper Deck (Sec. 3 c)	<i>Two</i>
„ Deck next below	<i>Five.</i>
As per Rule	<i>Seven</i>

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted
KEEL, Bar				
STEM		Mild Steel $9\frac{1}{2} \times 7\frac{1}{2}$		
STERN FRAME {	Propeller Post	Cast As per	Steel Co	
	Rudder	" 10 x 8 1/2 Steel app: plan of Scotland		
RUDDER—A x D		46.3.	Manns Stahlwerk	
Speed of Vessel		12 knots	Kriegs	
RUDDER ^{Dia 12} main pin at head		Mild Steel 11 1/4 dia	Dusseldorf	
" ^{12 1/2 x 10} main pin at heel		Cast Steel 12 1/2 x 6		
" how constructed		Cast steel frame	ramo solis	
" double or single plate		Double	.50	
" coupling, vertical or horizontal		Horizontal		

		Plating Thickness.	STIFFENERS.				
			VERTICAL.		HORIZONTAL.		
			Scantlings.	Spacing.	Scantlings.	Spacing.	
<i>Summer 2nd</i> MIDSHIP BULKH'D, Upper tween decks		.34	1 6 = 3 = .42	30	✓	✓	✓
"	" Second "		✓			✓	
"	" Third "						
"	" Holds .....	.50 - .36	2 6 1/2 = .42 1 6 1/2 = .46 1 12 = 3 1/2 = .57 1/2	30	✓	11 = 3 1/2 = .52 7 = 3 1/2 = .33 8 = 3 1/2 = .44	30
COLLISION (in Hold) .....		.57 - .36	1 4 = 3 1/2 = .40 1 10 = 3 1/2 = .30	24 / 30	✓	7 = 3 = .30	24 - 30
AFTER PEAK .....		.50 - .30	1 3 = 3 = .34	24	✓		

Has the Steel been tested as required by the Rules?

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded to the Plans should be embodied.)

List of plans.

Midship Section as built (forwarded in advance)
Midship Section
Profile & Decks.

Aft end framing
O.T. Bulkheads clear of amidships

Stemframe

Centrepiece for Star Contra propeller.

Detail of driven bolts for do.

Blade behind propeller

Rudder frame

Fore end framing

Twoen dk transverse 37-41

General pumping arrangement

Fore pumping arrangement

Upper Deck plating

Fit Fuel Pumps

Forging and Casting Certificate of Rudder, Stemframe & Ruddant & Peller

See No 641 "Norwin"

See No 641 "Norwin"

See No 641

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

1st Bower	43' - 0" - 15	A.B.	No 2961	23/5/30
2nd "	43' - 3" - 20	A.B.	No 2948	23/5/30
3rd "	35' - 3" - 12	A.B.	No 2947	23/5/30

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 104.5 ft., R.Q.D. ✓ ft., Bridge 28.0 ft., Forecastle 38.0 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)

Official No.

Signal Letters L.J.K.F.

particulars of composition

St. Cem

Is bottom of Vessel coated with cement *peaks only* if not

PARTICULARS OF WATER BALLAST.—

Where Fitted.

Double bottom, aft,
Double bottom, under Engines and Boilers,
Double bottom, if under Engines only,
Double bottom, if under Boilers only,
Double bottom, forward,

*Length.
Feet.

Water Capacity.
Tons.

81.0

305

Total capacity of double bottom

* The wells are not to be included in the lengths of the tanks.

Where Fitted.

Fore peak tank,
After peak tank,
Deep tank, aft,
Deep tank, forward,
Other tanks, if fitted,
(If necessary, furnish further information by sketch.)

*Length.
Feet.

Water Ca
Ton

22.25

113

16.0

129

38.25

498

Order for Special Survey No 6055

Date 24. 10. 29

Dates of Surveys held while building

1929 Dec 11 (1930) Jan 6. 8. Feb 3. 5. 12. 18. 24. 26 Mar 6. 7. 13. 17. 21. 25. 27 Apr 3. 11. 17. 24. 28. 29 May 5. 7. 12. 16. 20. June 3. 6. 9. 11. 18. 19. 24. 27. July 3. 4. 31. Aug 4. 5. 6. 7. 8. 9. 10. 12. 13. 14. 15. 18. 19. 20. 21. 22. 25. 26. 28. 29 Sep 2. 4. 5. 6. 16. 23 Oct 8. 10. 24. 29. 30 Nov 3. 7. 8. 10. 11.

Total No. of Visits

the Steel been tested as required by the Rules?

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.	Rivets in Brackets to Bulkheads.					
														Diam.	Speng.		Inches.	Number.	Diameter.			
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.			Inches.	Number.	Diameter.		
Framing of \angle \square \square																						
Frames in Bridge 'tween Decks ...			✓			✓		✓		✓												
Frames from Uppermost Continuous Deck No. 1		8	3 1/2	.44	8	3 1/2	.44	8	3 1/2	.44	8	3 1/2	.44	1	6		6	8	7/8			
" 2		"	"	"	"	"	"	"	"	"	"	"	"	1	6		6	"	"			
" 3		"	"	"	"	"	"	"	"	"	"	"	"	7/8	5 1/4		5 1/4	"	"			
" 4		9	3 1/2	.375	9	3 1/2	.375	9	3 1/2	.375	9	3 1/2	.375	"	"		5 1/4	9	"			
" 5		9	3 1/2	.41	9	3 1/2	.41	9	3 1/2	.41	9	3 1/2	.41	"	"		4" for	"	"			
" 6		10	3 1/2	.40	10	3 1/2	.40	10	3 1/2	.40	10	3 1/2	.40	"	"		10 Rivets	10	"			
" 7		"	"	"	"	"	"	"	"	"	"	"	"	"	"		on each side	"	"			
" 8		10	3 1/2	.43	10	3 1/2	.43	10	3 1/2	.43	10	3 1/2	.43	"	"			"	"			
" 9		10	3 1/2	.50	10	3 1/2	.50	10	3 1/2	.50	10	3 1/2	.50	"	"			"	"			
" 10		11	3 1/2	.50	11	3 1/2	.50	11	3 1/2	.50	11	3 1/2	.50	"	"		3 1/8" for	14	"			
" 11		12 x 3 1/2 x 3 1/2 x .45/60			12 x 3 1/2 x 3 1/2 x .45/60			12 x 3 1/2 x 3 1/2 x .45/60			12 x 3 1/2 x 3 1/2 x .45/60			"	"			16	"			
" 12		15 x 4 x 4 x .41/62			15 x 4 x 4 x .41/62			15 x 4 x 4 x .41/62			15 x 4 x 4 x .41/62			"	"		10 Rivets	12	"			
" 13		"	"	"	"	"	"	"	"	"	"	"	"	"	"			"	"			
" 14		"	"	"	"	"	"	"	"	"	"	"	"	"	"		on each side	"	"			
" 15		"	"	"	"	"	"	"	"	"	"	"	"	"	"			"	"			
and to No 21 " 16		"	"	"	"	"	"	"	"	"	"	"	"	"	"			"	"			
Spacing of Longitudinal Frames		Amidships 29 - 30			At Ends 29 - 30			Amidships 29 - 30			At Ends 29 - 30											
Double Bottoms \angle , \square or \square		Tank Top Longitudinals																				
		Bottom																				
Spacing of Longitudinals		Amidships			At Ends...																	
Transverses.														Rivets in Lugs to Shell								
In Bridge 'tween Decks		Depth and Thickness												Diam.		Speng.						
		Face Angles																				
		Lugs to Shell * $\frac{1}{8}$ "																				
In Upper 'tween Decks.		Depth and Thickness			30 3/4 to 24 x .40			30 3/4 to 24 x .40			30 3/4 to 24 x .40			30 3/4 to 24 x .40								
		Face Angle			3 1/2 3 1/2 .49			3 1/2 3 1/2 .49			3 1/2 3 1/2 .49			3 1/2 3 1/2 .49								
		Lugs to Shell * $\frac{1}{8}$ "			3 1/2 3 1/2 .40			3 1/2 3 1/2 .40			3 1/2 3 1/2 .40			3 1/2 3 1/2 .40			7/8		4			
In Hold.		Depth and Thickness			30 3/4 x .47			33 x .47			30 3/4 x .47			33 x .47								
		Face Angle			7 3 1/2 .52			7 3 1/2 .52			7 3 1/2 .52			7 3 1/2 .52								
		Lugs to Shell * $\frac{1}{8}$ "			6 6 .47			6 6 .47			6 6 .47			6 6 .47			7/8		4			
		" " Back Bars			✓			✓			✓			✓								
		Brackets			40 8 .47			40 8 .47			40 8 .47			40 8 .47								
Spacing of Transverse Frames		10'-7" - 8'-10"			10'-7" - 8'-10"			10'-7" - 8'-10"			10'-7" - 8'-10"											
		* State if joggled or liners.																				
Longitudinal Beams of \angle \square \square		Bridge Deck ...												Spacing.		In Ships.		As approved.				
		Upper			7 3 1/2 .40			7 3 1/2 .40			7 3 1/2 .40			24" - 30"		Plate.		Angles.				
		Second			7 3 1/2 .36			7 3 1/2 .36			7 3 1/2 .36			30"		Angles.		Plate.				
		Third			8 3 1/2 .35			8 3 1/2 .35			8 3 1/2 .35			30"		Angles.		Plate.				
																12 x .40		4 x 3 1/2 x .42		12 x .40 4 x 3 1/2 x .42		
																18 x .40		8" Haup.		18 x .40 5" Haup.		
																22 x .40		7 x 3 1/2 x .56		22 x .40 7' x 3 1/2 x .56		