

## STEEL STEAMER OR MOTORSHIP.

22 MAR 1948

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

Port of

Sunderland.

No.

34863

Survey held at

Sunderland.

Date First Survey

19th December 1946

Last Survey

11th March 1948

On the

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

Single Screw M.V. "Fernland"

State Type

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

C.S.S. with Tonnage Opening

State Type of Erections

Fore & Poop on UDK

TONNAGE under

4596.37

Tonnage Deck ...

CLASS

100 A1

State if with freeboard as condition of Class

Yes.

Built at

Sunderland

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

425.0

Launched

30th Sept 1947

Yard No.

325

Breadth (greatest moulded)

B

58.54

Builders

Bartram & Sons.

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

D

37.66

Owners

Fearnley & Siger.

1st Longitudinal Number (L x D)

=

15791

Managers

(Where necessary to be entered in Reg. Book)

2nd Numeral L x (B + D)

=

40677

Residence

Oslo.

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

{

24.71

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

{

11.28

Port of Registry

Oslo.

Total

Gross Tonnage

5563.46

Register Tonnage

3139.85

## REGISTERED DIMENSIONS.

FEET

Length

435.0

Breadth

58.9

Depth

26.7

Draught Moulded

25'-11 1/2"

If surveyed while building, afloat, &amp; in dry dock

Yes.

## 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	31 ✓		Bracket Floors, Frame	8 3 1/2 35 6 3 1/2 43 ✓	
" " from 1/2 length amidships to Collision bulkhead	27 ✓		" " Reversed Frame	6 3 34 ✓	
" " in peaks	24 ✓		" " Vertical Struts	6 3 34 ✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	4 3 1/2 54 ✓	
Frame Amidships, Angle, E or F	12 3 1/2 70 ✓		" " top Angles	3 1/2 3 1/2 48 ✓	
" " Extends up to	10 3 1/2 48 ✓		" " bottom Angles	4 4 54 ✓	
Reversed Frame Amidships, Angle	2nd 23 1/2 Dks ✓		Side Girders, No. each side and thickness	One 38 ✓	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	54 ✓	
Depth of Framing Girder	12 ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	Welded ✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	6 3 1/2 32 44 ✓ See		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	Welded ✓	
" " Second 'tween Decks, Angle, E or F	6 3 1/2 32 24 ✓ plan		" " Gussets, spacing and scantling abaft 1/4 len. from stem	14 4 42 ✓	
" " Third	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	14 4 42 ✓	
" " from 1/2 len. for'd. to 15% len. from Stem	10 3 1/2 44 5 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	12 5 42 ✓	
" " in Peaks, Angle, E or F	12 3 1/2 72 5 ✓			18 4 46 ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7 3 50 ✓		INNER BOTTOM PLATING.		
State if Frame Joggled	7 3 1/2 46 1/4 side ✓		Breadth and thickness of Middle Line Strake	Transverse plating ✓	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	7 3 1/2 46 1/4 bottom ✓		Thickness of remainder in Holds	45 ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes ✓		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?	Not applicable ✓	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	✓		Uppermost Continuous Deck, amidships, in Walls, Angle, E or F	8 3 1/2 42 44 ✓ See plan	
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, E or F	✓	
Middle Line Keelson, on Floors, Angles, E or F	31 ✓		Spacing	8 3 1/2 46 55 ✓ See plan	
" " Through Plate or Inter-costal Plate	9 3 1/2 38 ✓		Second Deck, amidships, Angle, E or F	31 ✓	
" " Foundation Plate on Floors	31 ✓		Spacing	8 3 1/2 44 48 ✓ See plan	
" " Flat Plate Keel Angles	✓		Third Deck, amidships, Angle, E or F	31 ✓	
Side Keelsons, No. each side	✓		Spacing	✓	
" " thickness of Inter-costal Plate	✓		Fourth Deck, amidships, Angle, E or F	✓	
" " Angles	✓		Spacing	7 3 38 ✓	
DOUBLE BOTTOM.			Poop Deck, Angle, E or F	6 3 38 ✓	
Solid Floors, thickness and spacing	42 93 ✓		Spacing	24 31 ✓	
" " Are Frame and Reversed Frame joggled?	Frame only ✓		Bridge Deck, Angle, E or F	✓	
Bracket Floors, breadth and thickness at middle line	39 42 ✓		Spacing	✓	
" " breadth and thickness at margin plate	36 42 ✓		Forecastle Deck, Angle, E or F	8 3 43 ✓	
			Spacing	21 24 ✓	



## 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. of Rows .....	One ✓		Stringer Plate, breadth and thickness in way of Bridge .....	
„ in 'tween Decks, Size and Spacing .....	4 4 3/4 ✓ alternate ✓		Thickness of Plating abreast Deck openings in way of Wells .....	.37 ✓
„ „ „ „ „ „			Thickness of Plating abreast Deck openings in way of Bridge <u>Casing</u> .....	.37 ✓
„ in Holds „ „ „	✓		Thickness of Plating within line of openings...	.34 ✓
„ „ „ „ „ „			If Sheathed, material and thickness.....	✓
Centre Line Bulkhead. <u>5</u> ✓	Two Dk 5 3 30 ✓ Hold. 8 3 38 1/2 ✓	alternate ✓	Third Deck.	
Stiffeners and Spacing .....	12 3 1/2 45 ✓		Stringer Plate, breadth and thickness.....	.34 ✓
Plating, thickness of .....	.26 ✓ .30 ✓		If Plated, state thickness .....	.30 ✓
STRINGERS AND DECKS.			Fourth Deck.	
Uppermost Continuous Deck.	83 ✓ .57 ✓		Stringer Plate, breadth and thickness.....	✓
Stringer Plate, breadth and thickness in Wells	✓		If Plated, state thickness.....	✓
„ „ „ „ „ in way of Bridge	✓		Poop Deck.	
„ Angle in Wells .....	6 6 .57 ✓		Stringer Plate, breadth and thickness.....	.36 ✓
Thickness of Plating abreast Deck openings in way of Wells .....	.54 ✓		Plating, Sheathing, material and thickness ...	.34 ✓
Thickness of Plating abreast Deck openings in way of Bridge <u>Casing</u> .....	.50 ✓		Bridge Deck.	
Thickness of Plating within line of openings...	.41 ✓		Stringer Plate, breadth and thickness.....	✓
If Sheathed, material and thickness.....	✓		Plating, Sheathing, material and thickness ...	✓
Second Deck.			Forecastle Deck.	
Stringer Plate, breadth and thickness in Wells	18 ✓ .40 ✓		Stringer Plate, breadth and thickness.....	.36 ✓
			Plating, Sheathing, material and thickness...	.34 ✓

## SHELL PLATING.

SCANTLINGS.					RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged ?	No	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.....	53 ✓	.79 ✓	.71 ✓	.72 ✓		double ✓	1/8	3 1/8	Welded. ✓					
„ Dblg. (if any)														
Bottom Plating, No. of Strakes ..... 4 ✓	A B C D	.61 ✓	.50 ✓ .77 ✓ .61 ✓	.52 ✓ .53 ✓ .59 ✓		double ✓	1/8	3 1/8	Welded ✓					
Bilge Plating, No. of Strakes ..... 1 ✓	E ✓	.61 ✓	.50 ✓	.52 ✓		„ ✓	1/8	3 1/8	Welded ✓					
Side Plating, No. of Strakes ..... 4 ✓	F G H J	.61 ✓	.47 ✓	.47 ✓		„ ✓	1/8	3 1/8	3 ✓	1/8	3 1/8	lapped ✓		
Upper Deck, Sheer- strake in Wells.....	18 ✓	.82 ✓ .71 ✓	.51 ✓	.47 ✓	Owners increase for 100' amidships. ✓	„ ✓	1/8	3 1/8	4 ✓	1/8	3 1/8	„ ✓		
Upper Deck, Sheer- strake in Bridge ...	✓													
Strake below Sheer- strake in Wells.....	✓													
Strake below Sheer- strake in Bridge ...	✓													
Poop Side Plating.....				.40 ✓		Single ✓	3/4	3 1/4	2 ✓	3/4	3	lapped		
Bridge Side Plating.....	✓													
Forecastle Side Plating	✓		.42 ✓			Single ✓	3/4	3 1/4	1 ✓	3/4	3	lapped.		

## WATERTIGHT BULKHEADS.

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

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks	✓				
„ „ Second	✓				
„ „ <u>Hold No 38</u>	.38 ✓				Troughed as approved. ✓
„ „ Holds	.34 ✓				Troughed as approved. ✓
COLLISION „ (in Hold)	.38 ✓	10 4 ✓	50 38 1 3 3 7 5	24 58 Beams	6' ✓
AFTER PEAK „	.30 ✓	10 ✓	44 30 6 3 3 4 5	24	8' ✓

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar .....	Flat plate.			
STEM .....	Roller 10 + 2 1/2 ✓			
STERN FRAME { Propeller Post .....	Open Fabricated Colville			
{ Rudder .....	Steel approved Co Ltd.			
Speed of Vessel .....	13 1/4 knots			
RUDDER—Type .....	Ordinary		Colville Constructional Co	
„ A x D.....	591.55 ✓			
„ Diam. of head .....	F.S. 11 3/4		Walsingham Steel Co Ltd	
„ Mainpiece at top pintle	Open Fabricated Colville			
„ „ heel	Steel approved Co Ltd.			
„ how constructed .....	Double			
„ double or single plate coupling, vertical or horizontal .....	C.S. Vertical		Steel Company of Scotland Ltd.	

## STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Skinnergrove, Appleby Frodingham, Dorman Long, South Durham

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

Open Hearth.  
Consett, Cargo Fleet,  
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.)

Rpt. 4

Certificates of forgings & Castings enclosed.

PARTICULARS OF ELECTRIC WELDING (if employed) Munox, Anas Arc, & Rockwell Electrodes.  
Keel butts, bottom shell butts, part shell seams & butts at ends, tanktop, tankside, margins & brackets, WT Bulkheads, C.L. Bulkheads to tanktop, deck butts, deckhouse, casings, boat deck, fore deck to shell, main engine seating, auxiliary engine seating, funnel, funnel stools, masts, masts, shell to stem & stern frame, stern frame, rudder.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Cruiser stern, D.F. E.S.  
1 Bk. (Coll to W Dk 6 to 2nd Dk). Pt Elec welded.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	47	0	191 (incl pms)	J H J	8419	2547
	2nd "	46	0	21	A E C	9098	101246
	3rd "	38	3	10	A E C	9456	15447

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 32.9 ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 42.6 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 450.08 (Circ. 1611) (Circ. 1703)  
No. and Material of Decks 1 Dk (Stl) & Shelter Dk. 3rd Dk (Stl) in No 2 hold.  
Parts of Bottom of Vessel coated with cement ✓ fore & after peaks, No 4 dbank.

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.	Tons.		Feet.	Tons.
Double bottom, aft,	111.08	329	Fore peak tank,	20.8	148.0
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	20.8	148.0
Double bottom, if under Engines only,	43.91	311	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	5.17	✓	Deep tank, forward,	31.0	1356
Double bottom, forward,	189.91	126	Other tanks, if fitted,	✓	✓
Total length (if continuous) and Capacity	352.32	1366	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 6244

Date 21-1-47

Dates of Surveys held while building

1946 Dec 19, 20, 31 1947 Jan 7, 8, 14, 16, 20, 22, 23, 24, 28, 29, 31 Feb 3, 12, 14, 17, 19, 21, 24, 27 Mar 3, 5, 6, 10, 12, 20, 25, 26, 28 Apr 1, 2, 9, 11, 14, 16, 17, 18, 21, 22, 23, 24, 25, 28, 29, 30 May 1, 2, 5, 6, 7, 9, 12, 13, 14, 15, 16, 19, 20, 21, 22, 23, 27, 28, 29, 30 Jun 2, 3, 4, 5, 6, 9, 10, 11, 12, 13, 22, 23, 26, 27 Jul 1, 2, 3, 4, 7, 8, 10, 14, 16, 17, 18, 21, 23, 24, 25, 28, 29 Aug 1, 5, 6, 7, 18, 21, 22, 26, 27, 28, 29 Sep 1, 4, 5, 8, 9, 10, 11, 16, 18, 19, 23, 24, 25, 26, 29, 30 Oct 2, 6, 7, 9, 13, 15, 17, 23, 31 Nov 3, 5, 20, 27 Dec 12, 15, 17, 18, 22, 24, 30, 31  
1948 Jan 2, 13, 20, 21, 22, 28, 30 Feb 3, 4, 5, 10, 12, 16, 17, 18, 19, 20, 23, 25, 27 Mar 1, 3, 5, 6, 8, 9, 10, 11

Total No. of Visits 194