

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office: **FRI. NOV. 23 1923**

Date of completion of report **22nd November 1923** Port of **Sunderland** No. **28684**
 Survey held at **Sunderland** Date, First Survey **21st January 1923** Last Survey **11th November 1923**
 On the (State if Single, Twin, or Triple Screw) **Single Screw Steamer "FERNWOOD"** Rig **Schooner**

CLASS "100 A-1"

Breadth (greatest moulded) **37.67** **Feet.**

Depth, at middle of length from top of keel to top of upper deck beams at side **20.25**

Transverse Number **4 x D** **5427**

Length on deck from fore part of stem to after part of stern post **268**

Longitudinal Number **4 x (B+D)** **15522**

Depth "d," at middle of length (See Secs. 2 & 18) **21.13 R&D**

Proportions—Depths to Length—Upper Deck Beam at side to top of keel **13.23**
 " " Long Bridge Deck **11.17**
 " " Beam at side to top of keel **9.82**

Master _____

Year of appointment _____

Built at **Sunderland**

When built **1923** **Launched** **25th October 1923**

By whom built **Sir James Laing & Sons Ltd**

Owners **W. France Forwick and Co Ltd**

Managers _____

Residence _____

Port belonging to **London**

Register Tonnage **1089.86** **Destined Voyage** **Lower** **If Surveyed while Building, Afloat, or in Dry Dock** **Building & afloat.**

Feet.	Inches.	BREADTH	Feet.	Inches.	DEPTH, ACTUAL	Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
268	0	Moulded	37	8	Do. do. do.	Do. do. do.	18	2	No. of Tiers of Beams

Moulded depth, ft. **27** ins. **3** To Bridge Dk. Round of Upper **9 1/2** ins.
 Moulded depth, ft. **20** ins. **3** To Upper Dk. Dk. Beam, Actual

FRAMING.						PILLARS.					
Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship
Angles, or C or L Bars amidships at 26 1/2	9	3	40	9	3	PILLARS In 'tween Deck, size and spacing	2 1/2 and 2 3/4	2 1/2 and 2 3/4	2 1/2 and 2 3/4	2 1/2 and 2 3/4	2 1/2 and 2 3/4
Do. in peaks	9	3	40	9	3	" " Hold	" "	" "	" "	" "	" "
Do. in way of Double Bottoms at Solid Floors	9	3	40	9	3	" " Quarter 'tween Dks.	" "	" "	" "	" "	" "
" " at intermdt. Bkts.	9	3	40	9	3	" " in Hold	" "	" "	" "	" "	" "
acing of Frames from centre to centre amidships	29	✓	29	✓	29	KEELSONS & STRINGERS.					
" " length to Collision bulkhead	26 1/2	✓	26 1/2	✓	26 1/2	CENTRE LINE KEELSON, Vertical Plate above					
" " in peaks	24	✓	24	✓	24	Rider Plate					
EVERSED FRAME, Angles	3	3	34	3	3	Flat Plate Keel Angles					
Do. in way of Double Bottoms at Solid Floors	3	3	34	3	3	Horizontal Plates on Floors					
" " at intermdt. Bkts.	9	✓	10 1/2	9	✓	Angles or Bulb Angles					
RAMING, depth of girder	9	✓	10 1/2	9	✓	SIDE KEELSONS, Number					
LOORS, depth and thickness of Floor Plate	42	✓	42	✓	42	Angles or Bulb Angles					
" " at mid-line for 1/2 length amidships	42	✓	42	✓	42	Plate above floors, for length					
" " in way of Engine and Boiler Spaces	42	✓	42	✓	42	Intercostal Plate, for length					
" " thickness at the ends of vessel	42	✓	42	✓	42	Attached to outside Plating with Angle					
" " depth at 1/2 the half breadth, as per Rule	42	✓	42	✓	42	BILGE KEELSON, Angles					
" " height extended at the Bilges	42	✓	42	✓	42	Intercostal Plate for length					
LOORS in Cell, Double Bottoms	42	✓	42	✓	42	Attached to outside Plating with Angle					
" " state if flanged (top & bottom)	42	✓	42	✓	42	SIDE STRINGERS, Number					
" " Spacing of Solid floors	42	✓	42	✓	42	Angle					
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	34 1/2	✓	44	34 1/2	✓	Intercostal Plate, for length					
" " Angles, Top	5	5	42	5	5	Attached to outside plating with Angle					
" " Bottom	6	6	46	6	6	Upper Deck Stringer Plate, br'dth & thickness					
" " to Floors	3	3	34	3	3	(clear of Bridge)					
Brackets at intermdt. frmg., wdth & thknss	6	✓	34	6	✓	br'dth & thickness					
SIDE GIRDERS, number on each side & thickness	6	✓	34	6	✓	(in way of Bridge)					
" " state if flanged (top and bottom)	3	3	34	3	3	Angle (clear of Bridge)					
" " Angles (top and bottom)	2 1/2	2 1/2	32	2 1/2	2 1/2	Tie Plate at sides of Hatchways					
" " to Floors	25	✓	44	25	✓	Deck * Iron or Steel, for Full lng.					
MARGIN PLATE, depth (exclusive of flange)	3	3	42	3	3	Thickness (clear of Bridge) wheel platform					
" " and thickness	3	3	42	3	3	(in way of Bridge)					
" " Angle to Outside Plating	3	3	34	3	3	Wood Deck. Material & thickness					
" " Floors	3	3	34	3	3	Second Deck Stringer Plate, br'dth & thickness					
Brackets at intermdt. frmg., wdth & thknss	16 1/2	✓	16 1/2	✓	16 1/2	Angles on ditto, No.					
Height of Outside Brackets above at bilge	16 1/2	✓	16 1/2	✓	16 1/2	Tie Plates outside Hatchways					
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	72 1/2	✓	50	40	✓	Deck * Iron or Steel, for Full lng.					
" " in Engine and Boiler space	50	✓	38	40	✓	Wood Deck. Material & thickness					
" " Remainder in Holds	50	✓	38	40	✓	Third Deck Stringer Plate, br'dth & thickness					
BEAMS, Upper Deck, Single Angle, Bulb	4	3	48	4	3	Angles on ditto, No.					
" " Angle, Plate, Tee Bulb, or Channel	4	3	48	4	3	Tie Plates, outside Hatchways					
" " In way of Long Bridge	29	✓	29	✓	29	Deck * Material and thickness					
" " Spacing	29	✓	29	✓	29	Fourth and Fifth Deck Stringer Plate, breadth & thickness					
BEAMS, Second Deck, Single Angle, Bulb	4	3	42	4	3	Angles on ditto, No.					
" " Angle, Plate, Tee Bulb, or Channel	4	3	42	4	3	Tie Plates outside Hatchways					
" " Spacing	29	✓	29	✓	29	Deck. Material & thickness					
BEAMS, Third and Fourth Deck, Single Angle, Bulb	4	3	42	4	3	Poop Deck Stringer Plate, breadth & thickness					
" " Angle, Plate, Tee Bulb, or Channel	4	3	42	4	3	Angle on ditto					
" " Angles on upper edge	4	3	42	4	3	Tie Plates					
" " Spacing	29	✓	29	✓	29	Deck. Material and thickness					
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5 1/2	3	30	5 1/2	3	Bridge Deck Stringer Plate, br'dth & thickness					
" " Angles on upper edge	5 1/2	3	30	5 1/2	3	Angle on ditto					
" " Spacing	29	✓	29	✓	29	Tie Plates					
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	5 1/2	3	38	5 1/2	3	Deck. Material and thickness					
" " Angles on upper edge	5 1/2	3	38	5 1/2	3	Forecastle Deck Stringer Plate, br'dth & th'kns					
" " Spacing	29	✓	29	✓	29	Angle on ditto					
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	6	3	30	6	3	Tie Plates					
" " Angles on upper edge	6	3	30	6	3	Deck. Material and thickness					
" " Spacing	29	✓	29	✓	29						

W37-0178(1/2)

WEB FRAMES.				Inches in Ship.	Inches per Rule. Or as Ap- proved.
WEB-FRAMES, In Fore Body, No. and spacing				2 as approved	3 x 4 spaces apart
No. of Side Stringers				3 parting stringers ✓	Bunker ends only
WEB-FRAMES, In E. & B. Space, No. and spacing				Main frames increased .06	
Web Frames, depth and thickness.....				web frames in after deep tank as approved ✓	
No. of Side Stringers				5 x 3 x .48 Angle ✓	
Size of Face Angles to Web-Frames.....					
BRACKET PLATES TO STRINGERS BETWEEN WEB FRAMES, depth and thickness.....					

BULKHEADS.				STIFFENERS.				Single or Double Frames.	Height up, state deck.
Vessel.	No. of Bulkheads.	Thickness, Inches.	Horizontal Size, Inches.	Vertical Spacing, Inches.	Horizontal Size, Inches.	Vertical Spacing, Inches.	Horizontal Size, Inches.	Vertical Spacing, Inches.	
AFTER PEAK	4	.38 - .30	L 9x3.44	24	"	"	"	"	Single Quarter Deck
E.R. END	4	.36 - .26	L 8x3.40	28	"	"	"	"	Upper deck
BR "	4	.36 - .26	L 8x3.40	30	"	"	"	"	"
COLLISION PARTITION LONGITUDINAL		.38 - .26	ONE SEMI BOX BEAM L 10x3.48	24	"	"	"	"	"

* approved in lieu of L 9x3.52 ✓

Are the outside Plates doubled two spaces of Frames in length? Yes ✓

Are the Hatch Valves and Watertight Doors in efficient working order? Yes ✓

FORGINGS OR CASTINGS.				Inches in Ship.	Inches per Rule, Or as Approved.
KEEL, Bar, depth and thickness				Flat plate keel	
STEM, moulding and thickness				7 5/8 x 2 3/8	7 5/8 x 2 3/8
STERN POST for Rudder do. do.....				7 5/8 x 5 1/2	7 5/8 x 5 1/2
for Propeller				8 x 5 1/2	8 x 5 1/2
RUDDER-AxD* Table 22. Speed 9 1/2 K✓				191.47	
Main-Piece, diameter at head				6 3/4	6 3/4
at heel.....				5"	5"

RUDDER, how constructed Forged Shrink arms + single plate ✓

Thickenss of Plates or Single Plate .96 ✓

Can the Rudder be unshipped afloat? yes ✓

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.? Open Leach Process

Plates - Bolckow Vaughan

Bars - Bolckow Vaughan and Cargo Fleet

Has the Steel been tested as required by the Rules? yes ✓

PLATING.										RIVETING.									
AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES, Ordinary or Joggled?				BUTTS.									
STRUKES.																			
FLAT PLATE KEEL.....		48	.58	.58	.58	48	.58	DOUBLE	5/4	7/8	3/4	3R	7/8	3/8		9	FULL		
(1) Bar Keel, state Riveting.)																			
GARBOARD OF A Strake		72	.52	.44	.52	72	.52	"	4 1/2	3/4	3	3R to 2R	3/4	2 5/8		7 1/2	"		
State actual thickness in way of Double Bottom.																			
B "		72	.52	.40	.50	72	.52	"	4 1/2	"	3	"	3/4	"		7 1/2	"		
C "		72	.52	.40	.46	72	.52	"	4 1/2	"	3	"	3/4	"		7 1/2	"		
D "		72	.52	.40	.46	72	.52	SINGLE	2 1/2	"	3	"	3/4	"		7 1/2	"		
E "		72	.52	.40	.40	72	.52	DOUBLE	5/4	7/8	3/4	"	3/4	"		7 1/2	"		
F "		72	.52	.40	.40	72	.52	"	5/4	7/8	3/4	"	7/8	3/8		9	"		
upper de Shear G "		42	.52	.40	.40	42	.52	"	4 1/2	3/4	3	3R in way of RQD	7/8	"		9	"		
H "		40	.46	Bridge side + shearstrake		40	.46	"				3R	3/4	2 5/8		7 1/2	"		
J "																			
K "																			
L "																			
M "																			
N "																			
O "																			
P "																			
Q "																			
R "																			
S "																			
T "																			
U "																			
V "																			
W "																			
THICKNESS OF SHEAR STRAKE CLEAR OF LONG BRIDGE DO. OF STRAKE BELOW		47	.64	.40	.40	47	.64	DOUBLE											

EQUIPMENT No. 16344				LETTER Q				ANCHORS.				TONNAGE U. DK. OR PLATING No. FOR TRAWLERS					
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 31.		Description of Anchor	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.			
38689	1st Bower ...	34	0	20				31	14	1	14	33	0	0	Stockless	Britannia	Cradley Heath 6.6.23
38688	2nd " ...	31	3	16				30	0	2	14	33	0	0	do	do	do do do do
38690	3rd " ...	27	3	20				27	0	2	14	28	0	0	do	do	do do do do
	4th " ...																
	Collective weight.	94	0	0								94	0	0			
57579	Stream	8	2	21	2	1	0	10	15	0	0	8	2	0	Common Anchor Forged wt. iron	R. Blomere & Son Ld	Tipton 2.5.23 W. Drysdale
	Kedge.....																

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

1st Bower 21.2.6 ✓ DDW 5590 7.3.23
2nd " 19.1.16 ✓ DDW 5810 15.5.23
3rd " 16.2.6 ✓ DDW 5754 24.4.23
4th "

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and size per Table 31.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire Towline.	Length and size per Table 31.	
	Length.	Diam.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Ins.		Length.	Ins.
57834	240'3"	1 1/8"	5 1/4"	7 1/4"	344'2.24	344'3.0	240	1 1/8"	Steel	R. Blomere	Tipton 15.5.23 W. Drysdale	TOWLINE	90	33	26	90	33
												HAWSERS & WARPS	2@90	24	93	2@90	24
															7	2@90	1 1/4
															33		

Boats 2 Lifeboats 22'0" x 7'3" x 2'9" 1 Dugby 16'5" x 6'6" x 2'5" **Steering Gear, Steam** Yes. **Hasties** **Steering Gear, Hand** Yes ✓
Pumps, Number Downton pump not required **Diameter of Barrel** State whether they are in efficient working order ✓
Windlass is Emerson walkers direct Steam **Capstan** ✓
Engine Room Skylights.—How constructed? Steel plates & angles ✓ What arrangements for deadlights in bad weather? Steel flaps & bulls' eyes ✓
Coal Bunker Openings.—How constructed? Steel plates & angles ✓ How are lids secured? Tarpanlins & battens ✓ Height above deck? 1'-6" ✓
Number of Scuppers, and numbers and dimensions of **Freeing Ports, &c.** 4 freeing ports 4'0" x 2'3" each side fwd. 5 @ 3'6" x 1'9" each side aft. 3 scuppers on each side ✓
Ceiling in Holds, thickness and material. None ✓ **Cargo Battsens,** thickness and material. None fitted on top of hold ✓
Cargo Hatchways.—How formed? Steel plates & angles ✓ **Hatches,** If strong and efficient? Yes ✓
State size No. 1 Hatch (Forward) 33'6" x 23'0" **No. 2 Hatch** 35'3" x 24'6" **No. 3 Hatch** 29'0" x 23'9" **No. 4 Hatch** 29'0" x 22'6" ✓
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 5 in No. 1 & 2 ✓ 4 in No. 3 & 4 ✓ **Hatches** 3' chick ✓
No. of Breasthooks 4 **No. of Crutches** none ✓
Bulwarks, height above deck and description 3'6" in Red 4'0" in any of upper deck x 25" Main Rail, material and size 5 1/2" x 3" x 30 Bolt Angle ✓
The foregoing is a correct description ✓
Builder's Signature (here only) *James Laing & Sons, Limited* **Surveyor's Signature** *A. Pickworth*
Surveyor to Lloyd's Register of Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case)

M. 16.11.22, M. 22.12.22, E. 9.3.23

Workmanship. Are the butts of plating planed or otherwise fitted? Overlapped & planed ✓

Is the riveted work properly closed? Yes ✓

Are the liners between the frames and plates solid single pieces? Joggled framing ✓ Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? Yes ✓

Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? Yes ✓ Do any rivets break into or through the seams or butts of the plating? A few ✓

Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes ✓

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? Yes ✓ State results of tests Satisfactory ✓

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? Yes ✓ State results of tests Satisfactory ✓

General Remarks (State quality of workmanship, &c.)

This vessel has been constructed in accordance with the approved plans the Secretary's letters and the Rules. ✓
The materials and workmanship are good. ✓

The approved plans (6), 5 Forging Reports and also a midship section and profile of the vessel as built are forwarded herewith. ✓

A sketch of the arrangement of strakes of plating amidships is also forwarded. ✓
Please return the approved plans which are required in connexion with the construction of a sister vessel. ✓

The Surveyor should state the Number of Report and Name of any Sister Vessel.
Plans to be forwarded with F.E. Report showing vessel as built.

Freeboard Fee £6 : 0 : 0
The amount of Entry Fee £ 5 : 0 : 0
Special Survey Fee.... £ 169 : 12 : 0
Travelling Expenses, if any £ : :
Fees applied for, 16th Nov 1923
Received by me, 22nd Nov 1923

Hail & Inchy Certificate sent to SUNDERLAND Date of issue 27.11.23.

State whether the Vessel has been built under Special Survey Yes

I am of opinion this Vessel should be Classed 1-100 A.1.

With, or without Freeboard, as condition of Class without

A. Pickworth
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 27 NOV. 1923

Character assigned 100A
Cargo battens not fitted

+ Ltr 6.11.23
O.G.

Lloyd's ass. O

mpy



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Lloyd's Register
Foundation

W37-0178 (212)

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 21 ft., R.Q.D. 85 ft., Bridge 51 ft., Forecastle 22 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) 1 DK (Steel) well deck
Official No. 147556; Signal Letters _____ State if Machinery is fitted aft no
How are the surfaces preserved from oxidation? Inside Paint and cement Outside Paint.

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors Cellular System

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<u>48' 4"</u>	<u>100</u>	Fore peak tank,	<u>16' 0"</u>	<u>70</u>
Double bottom, under Engines and Boilers,	<u>31' 5"</u>	<u>72</u>	After peak tank,	<u>16' 0"</u>	<u>65</u>
Double bottom, if under Engines only,	<u>✓</u>	<u>✓</u>	Deep tank, aft,	<u>36' 3"</u>	<u>195</u>
Double bottom, if under Boilers only,	<u>✓</u>	<u>✓</u>	Deep tank, forward,		
Double bottom, forward,	<u>104' 10"</u>	<u>202</u>	Other tanks, if fitted,		
Total capacity of double bottom		<u>374</u>	(If necessary, furnish further information by sketch.)		

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

State whether the above have been tested as required by the Rules yes

Order for Special Survey No. 5518

Date 15.12.52

No. 684 in builder's yard.

DATES of Surveys held while building

1928 Jan. 24, 29, 31 Feb. 2, 5, 9, 13, 19, 21, 22, 27, May 1, 6, 9, 13, 16, 19, 23, 26, 27, Apr. 9, 11, 13, 17, 22, 26, 30, May 2, 4, 7, 10, 15, 24, 31, June 5, 14, 18, 20, July 4, 6, 10, 12, 13, 17, 25, Aug. 2, 9, 10, 14, 21, 23, 27, 29, 31, Sep. 3, 6, 7, 11, 14, 20, 24, 26, 28, Oct. 2, 3, 5, 9, 15, 17, 22, 23, 24, 30, Nov. 5, 6, 12, 14.

Total No. of Visits 78

Surveyor's Signature

A. Pickworth