

STEEL STEAMER ~~OR MOTORSHIP~~

Received at London Office 31 DEC 1929

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

27 Dec. 1929

Port of

HULL

No.

40468

Survey held at

Hull

Date First Survey

26 June 29

Last Survey

20 Decr.

19 29

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

Twin Screw vessel "MARKLAND" having machinery amidships.

State Type

(Full Scantling, Complete Superstructure with or without Tonnage Openings) Hunkle deck, full scantling.

State Type of Erections

Poop & H.C.

TONNAGE under Tonnage Deck...

3555.12

CLASS

100 A1

State if with freeboard as condition of Class

No

Built at

Hull

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 326.5

Launched

20-11-29

Yard No.

677

Total

3555.12

Breadth (greatest moulded)

B 52.5

Builders

Earle's S.B. & Co., Lim.

Gross Tonnage

4453.84

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

D 30.0

Owners

Mersey Shipping Co., Lim.

Register Tonnage

2694.94

1st Longitudinal Number (L x D)

= 9795

Managers

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

2nd Numeral L x (B + D)

= 26936

Residence

Liverpool, Nova Scotia

REGISTERED DIMENSIONS.

FEET.

Length

327.3

Breadth

52.7

Depth

27.3

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

✓

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

10.9

Do. Long Bridge to top of keel

✓

Draught Moulded

24'-7"

Port of Registry

Liverpool, U.K.

If surveyed while building, afloat, or in dry dock

B. & Afe.

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	24	✓	Bracket Floors, Frame	12.0 6 3 38	6 x 3 1/2 x 38
" " from 3/8 length to Collision bulkhead	24	✓	" " Reversed Frame	6 3 38	6 x 3 1/2 x 38
" " in peaks	A 24 F 21	✓	" " Vertical Struts	7 1/2 3 38	8 x 22.8 lb.
SIDE FRAMING.			Centre Girder, depth and thickness amidships	42 49	
Frame Amidships, Angle, [or]	12 x 4 x 66 x 625	✓	" " top Angles	3 3 48	
" " Extends up to	Bulwark top	✓	" " bottom Angles	4 4 54	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	1 36	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	41.5 46	
Depth of Framing Girder	12	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	5 5 38	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	✓		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5 5 38	
" " Second 'tween Decks, Angle, [or]	✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	Continuous 36	
" " Third " " " "	✓		" " Gussets, spacing and scantling forward 1/2 len. from stem	do 36	
Framing in Peaks, Angle or [F 1/2 3 1/2 40	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	46	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 6 1/4	✓	INNER BOTTOM PLATING.		
State if Frame Joggled	No	✓	Breadth and thickness of Middle Line Strake	7/8 48	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	B system	✓	Thickness of remainder in Holds	40 36	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	res. frames & stringers. increased shell, closer fitting, solid floors, etc.	✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Tankers and Boiler Room?	Yes	
SINGLE BOTTOM. aft.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	42 36	✓	Uppermost Continuous Deck, amidships	8 1/2 3 1/2 48	
Height of Brackets at side above base line at toe of frame	60	✓	" " in Wells, Angle, [or]	7 3 1/2 44	6 1/2 x 3 1/2 x 40
Middle Line Keelson, on Floors, Angles, [or]	12 4 62.5 12 x 3 1/2 x 35 46	✓	" " in way of Bridge, Angle, [or]	Every frame	
" " Through Plate	42 49	✓	Spacing	Every frame	
" " Intercostal Plate	✓		Second Deck, amidships, Angle, [or]		
" " Foundation Plate on Floors	4 4 54	✓	Spacing		
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, [or]		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle, [or]		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, [or]	6 3 1/2 44	
Solid Floors, thickness and spacing	36 - 6'9"	✓	Spacing	Every frame	
" " Are Frame and Reversed Frame joggled?	Yes	✓	TRUNK		
Bracket Floors, breadth and thickness at middle line	2'8" 36	✓	Bridge Deck, Angle, [or]	6 3 1/2 44	
" " breadth and thickness at margin plate	2'8" 36	✓	Spacing	Every frame	
			Forecastle Deck, Angle, [or]	6 3 1/2 44	
			Spacing	Every frame	

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.....	<i>in tunnel</i>	<i>1</i>			
„ in 'tween Decks, Size and Spacing.....					
„ „ „ „ „					
„ in Holds <i>tunnel</i> „	<i>4 4 40</i>				
„ „ „ „ „ <i>on every frame</i>					
Centre Line Bulkhead.					
Stiffeners and Spacing.....					
Plating, thickness of					
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness in Wells	<i>96 %</i>				
„ „ „ „ in way of Bridge	<i>✓</i>				
„ Angle in Wells <i>Collars</i>	<i>3½ 3½ 50</i>				
Thickness of Plating abreast Deck openings) in way of Wells	<i>✓</i>				
Thickness of Plating abreast Deck openings) in way of Bridge <i>E & B</i>	<i>38</i>				
Thickness of Plating within line of openings...	<i>✓</i>				
If Sheathed, material and thickness	<i>✓</i>				
Second Deck.					
Stringer Plate, breadth and thickness in Wells...	<i>✓</i>				
Stringer Plate, breadth and thickness 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	<i>44</i>				
Plating, Sheathing, material and thickness	<i>34 6 32</i>				
TRUNK					
Bridge Deck.					
Stringer Plate, breadth and thickness.....	<i>54 56</i>				
Plating, Sheathing, material and thickness	<i>38</i>				
Forecastle Deck.					
Stringer Plate, breadth and thickness.....	<i>44</i>				
Plating, Sheathing, material and thickness	<i>38 6 32</i>				

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>ho</i>			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	60	84	63	63	<i>(suppld)</i>	<i>double</i>	1	4	4 ✓	1	4	<i>laps</i>	
" DBLG. (if any)	✓					"	$\frac{1}{8}$		3			"	
BOTTOM PLATING, No. of Strakes <i>4</i>	✓	55	55	55		<i>double</i>	$\frac{1}{8}$	$3\frac{3}{8}$	3 ✓	$\frac{1}{8}$	$3\frac{1}{8}$	<i>laps</i>	
BILGE PLATING, No. of Strakes <i>1</i>	✓	55	55	43		"	"	"	" ✓	"	"	"	
SIDE PLATING, No. of Strakes <i>4</i>	✓	55	55	43		"	"	"	" ✓	"	"	"	
UPPER DECK, Sheer- strake in Wells.....	50	70	41	48					4 ✓	"	$3\frac{1}{2}$	"	
UPPER DECK, Sheer- strake in Bridge ...	✓												
STRAKE BELOW Sheer- strake in Wells.....	✓												
STRAKE BELOW Sheer- strake in Bridge ...	✓												
POOP SIDE PLATING	✓			.38		<i>single</i>	$\frac{3}{4}$	3	2	$\frac{3}{4}$	$2\frac{5}{8}$	"	
BRIDGE SIDE PLATING ...	✓					"	"	"	"	"	"	"	
FORECASTLE SIDE PLATING	✓			.38		"	"	"	"	"	"	"	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		27
Extending to Upper Deck (Sec. 3 c).....		✓
,, Deck next below.....		✓
As per Rule.....		5

	Plating Thickness.	STIFFENERS.	
		VERTICAL.	HORIZONTAL.
		Scantlings, Spacing.	Scantlings, Spacing.
MIDSHIP BULKHD, Upper tween decks			
„ „ Second „			
„ „ Third „			
„ „ Holds	✓	46-26 [12 × 3½ × 60 30. 3½ × 3½ × 40	reverse
COLLISION „ (in Hold)	✓	42-26 [8 × 3 × 50-24	
AFTER PEAK „ „	✓	37-28 [9 × 3 × 54-24	

FORGINGS and CASTINGS.

	Casting or Forging.	Scanlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓			
STEM				
STERN FRAME {				
Propeller Posts.....				
Rudder "				
RUDDER—A×D				
Speed of Vessel				
RUDDER mainpiece at head ...				
" " heel ...				
" how constructed				
" double single plate				
" coupling, vertical or				
" horizontal.....				

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open hearth process.*
South Durham S. & L. Co., Ltd. — Cargo Fleet S. Co., Ltd. — Pease & Partners, Ltd. — Consett S. Co., Ltd. —
Frodingham S. & L. Co., Ltd. — Rotherham, Long & Co., Ltd. — Appleby S. Co., Ltd.
 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.)

This vessel has been built in accordance with the approved plans, with the Secretary's letters and otherwise with the Society's Rules.

The material and workmanship are satisfactory. The launch was witnessed and was apparently satisfactory. The approved plans are —

Midship Section.
Rivetting Table.
Painting Prevention.
Stem frame & Rudder.
Cruiser Stern.
After peak floors.
Tunnel.
Trunk deck.
Boss casting.
Hatchways.
Tiller & quadrant.

Profile Decks & Tank top.
Bulkheads.
Propeller Brackets.
After end floors.
Keel & Centre girder.
Strengthening in E. & B. Space.
Shell expansion.
Trunk Sides.
Pumping plan.
Paper cargo shelves. (21)

The decks, bulkheads, tanks, gutterways, hand pumps, steering gear, windlass, h.t. door, trunk side, etc. have been tested.

Plans of midship section & profile with decks as built are also forwarded herewith.

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

1st Bower	29-0-22	A.B.	2014	30-5-28
2nd "	28-3-15	M.A.B.	1267	22-6-27
3rd "	25-0-20	D.C.B.	3111	26-2-29

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 21 ft., R.Q.D. ✓, TRUNK 24 1/2 ft., Forecastle 31 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated. The trunk is joined to poop & Forecastle —

No. and Material of Decks (this information is to be given as it should appear in the Register Book). 1 Sh. (Stk.) & Trunk Sh. (Stk.) (F.P.T. hol)

Official No. 161135 ; Signal Letters

Is bottom of Vessel coated with cement { 4 F. wings, if not give

particulars of composition Nothing in fuel tanks, grease paint in A wing tanks & E.R. tanks.

PARTICULARS OF WATER BALLAST.—

PARTICULARS OF WATER BALLAST.—					
Where Fitted.	*Length.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	40'	150	Fore peak tank,	✓	109
Double bottom, under Engines and Boilers,			After peak tank,	✓	123
Double bottom, if under Engines only,			Deep tank, aft, wings. (4 in all)	63'	279
Double bottom, if under Boilers only,	140'	394	Deep tank, forward,	✓	
Double bottom, forward,			Other tanks, if fitted,	✓	
Total capacity of double bottom 544			(If necessary, furnish further information by sketch.)		
* The walls are not to be included in the lengths of the tanks.					

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

Order for Special Survey No. 2917

Date 24 June 1929.

Dates of Surveys held while building

1929. June 26. July 2. 11. 17. 24. 31. Aug 7. 8. 13. 16. 21. 23. 27. 30. Sept 4. 9. 16. 19. 23. 26. Oct 2. 4. 7. 8. 9. 11. 14. 16. 17. 18. 21. 23. 26. 28. 29. Nov 1. 2. 4. 8. 13. 19. 20. 21. 26. 28. Dec 3. 6. 11. 13. 16. 18. 20.

Total No. of Visits 52