

STEEL STEAMER or MOTORSHIP.

Received at London Office 17 MAR 1928

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

13th March 1928

Port of

Barrow-in-Furness

No. 2271

Survey held at

Barrow

Date First Survey

7th May 1926

Last Survey

14th March 1928

On the

(State if Machinery fitted with or without Tonnage Openings)

Twin Screw Steamer (Steel) "ORFORD"

State Type

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

Complete Superstructure

State Type of Erections

Bridge & Mast

TONNAGE under Tonnage Deck

12119.75

CLASS + 100A1

State if with freeboard as condition of Class

Yes

Built at

Barrow-in-Furness

Launched

27th Sept 27 Yard No. 627

Builders

Messrs Vickers Armstrongs Ltd.

Owners

Orient S.N. Coy.

Managers

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

Residence

Yes

Port of Registry

~~Barrow~~ *Barrow* (See office Dept. + R.S. on page 11.4.28)

X surveyed while building afloat, or in dry dock

Yes

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

Total

Gross Tonnage

19941.50

Register Tonnage

12027.38

REGISTERED DIMENSIONS.

FEET.

Length

632.2

Breadth

75.4

Depth

33.1

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

L 630

Breadth (greatest moulded)

B 75

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

D 45.29

1st Longitudinal Number (L x D)

= 28533

2nd Numeral L x (B + D)

= 75783

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

d = 16.87

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

D = 11.45

Do. Long Bridge to top of keel

E = 13.4

Draught Moulded

29.7

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	36"		Bracket Floors, Frame	Frame 129	Side 58
" " from 1/2 length to Collision bulkhead	27"		" " Reversed Frame	Duct keel 186	Keel angles 4x4x72
" " in peaks	24"		" " Vertical Struts		3.8 4x4x72
2. All sections are New British Standard.			Centre Girder, depth and thickness amidships		52 1/2 x 71
DE FRAMING.			" " top Angles	double	4 4 69
Frame Amidships, Angle E or F	10 3 1/2 41		" " bottom Angles	do	5 5 75
" " Extends up to	G Deck in many places		Side Girders, No. each side and thickness		3 50
Reversed Frame Amidships, Angle	9 4 56		Margin Plate depth (excl. of flange) and thickness		48 x 68
" " Extends up to	9 deck		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem		6 6 54
Depth of Framing Girder	in 10th Hold 14 1/2		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem		6 6 54
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	8 3 1/2 41		" " Gussets, spacing and scantling abaft 1/2 len. from stem		every 50
" " Second 'tween Decks, Angle, E or F	8 3 1/2 41		" " Gussets, spacing and scantling forward 1/2 len. from stem		every 50
" " Third " " " " " "	10 3 1/2 41		Tank Side Brackets, height above base line at toe of Frame and thickness		81 x 54
Framing in Peaks, Angle or F	10 3 1/2 39		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Shell Plating	1" - 6"		Breadth and thickness of Middle Line Strake		67 1/2 x 67
State if Frame Joggled	Yes		Thickness of remainder in Holds		50
STRENGTHENING ARRANGEMENTS (Sec. 7), state system and particulars	3 Side Stringers		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, with further additions arranged by Owners (See plans as built)
LENGTHENING OF BOTTOM FORWARD. State Particulars	2 added light struts; 3 struts bottom & thickened 6x6x54 framing in 10th forward 3 1/2		BEAMS.		
DOUBLE BOTTOM.			E Uppermost Continuous Deck, amidships		8 x 3 1/2 x 3 1/2 52
Floors, Depth and thickness at mid-line in Holds			" " in Way of Bridge, Angle, E or F		36
Height of Brackets at side above base line at toe of frame			Spacing		36
Middle Line Keelson, on Floors, Angles, E or F			F Second Deck, amidships, Angle, E or F		8 x 3 1/2 x 3 1/2 52
" " Through Plate or Intercoastal Plate			Spacing		36
" " Foundation Plate on Floors			G Third Deck, amidships, Angle, E or F		8 x 3 1/2 x 3 1/2 52
" " Flat Plate Keel Angles			Spacing		36
Side Keelsons, No. each side			H Fourth Deck, amidships, Angle, E or F		8 x 3 1/2 x 3 1/2 52
" thickness of Intercoastal Plate			Spacing		36
" Angles			D Deep Deck, Angle, E or F		8 x 3 1/2 x 3 1/2 52
DOUBLE BOTTOM.			Spacing		36
Mid Floors, thickness and spacing	50 sk 36		C Bridge Deck, Angle, E or F		8 x 3 1/2 x 3 1/2 52
" Are Frame and Reversed Frame joggled?	Yes		Spacing		36
Bracket Floors, breadth and thickness at middle line			Forecastle Deck, Angle, E or F		8 x 3 1/2 x 3 1/2 52
" breadth and thickness at margin plate			Spacing		27 1/2 x 24

PILLARS AND DECKS.

		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.	4		
" in 'tween Decks, Size and Spacing	3/4" frame spaces 5/4" to 3" solid in alone and also bulk pillars		See
" " " " "	5/6" frame spaces □ and O bulk pillars		Abhd. plans.
" in Holds	" " "		
" " " " "	" " "		
Centre Line Bulkhead.			
Stiffeners and Spacing			
Plating, thickness of			
STRINGERS AND DECKS.			
Uppermost Continuous Deck.	E		
Stringer Plate, breadth and thickness in Wells	2 Stringers 75 x 57 x 1/2" S		increased as abhd.
" " " " in way of Bridge	57 x 47		
" Angle in Wells	8 x 8 x 1.1 E 7 x 7 x 1.1 5 x 5 x 40 ends		
Thickness of Plating abreast Deck openings in way of Wells	84/40 ends		
Thickness of Plating abreast Deck openings in way of Bridge	143		
If Sheathed, material and thickness	Teak and Rubber 2 1/2" Teak		
Second Deck.	F		
Stringer Plate, breadth and thickness in Wells	58 x 54		
Stringer Plate, breadth and thickness in way of Bridge	57 x 43		
Thickness of Plating abreast Deck openings in way of Wells	48/46		
Thickness of Plating abreast Deck openings in way of Bridge	39		
If Sheathed, material and thickness	2 1/2" Teak		
Third Deck.	G		
Stringer Plate, breadth and thickness	60 x 44		
If Plated, state thickness	and 58 x 44		
Fourth Deck.	H		
Stringer Plate, breadth and thickness	44/36		
If Plated, state thickness	42/40		
Peep Deck.	C		
Stringer Plate, breadth and thickness	85 1/2 x 74		
Plating, Sheathing, material and thickness	52/40 2 1/2" Teak		
Bridge Deck.	D		
Stringer Plate, breadth and thickness	57 x 54/40		
Plating, Sheathing, material and thickness	50/30 2 1/2" Teak		
Forecastle Deck.			
Stringer Plate, breadth and thickness	39 x 44		
Plating, Sheathing, material and thickness	34 2 1/2" Teak		

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled? <i>no.</i>			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.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	59	1.1	.94	.98		2	1 1/2	4 1/2"	3	1 1/2	4 1/2	Strapped
" DBLG. (if any)	37	1.0				1	"	"	1	"	"	no Straps
BOTTOM PLATING, No. of Strakes84	.62	.66	Butts Limit: Riv in Flat & Bottom in line & Quas R.	2	1"	4"	5/4	1"	4 1/4	Lapped
BILGE PLATING, No. of Strakes84	.80	.68	3 Rows F.B. 131-191	2	1"	4"	4	1"	4"	do
SIDE PLATING, No. of Strakes79	.58	.58	3 - A.B. 28-60	3/2	1"	4"	4	1"	4"	do
UPPER DECK, Sheer- strake in Wells.....	78	1 1/2 .80	.58	.58		2	1 1/2	4 1/4	4/3	1 1/2 - 1"	4 1/2 - 4"	Strapped & Lapped
UPPER DECK, Sheer- strake in Bridge ...	78	.79	.58	.58		2	1"	4"	4	1"	4"	Lapped
STRAKE BELOW Sheer- strake in Wells.....	73	1.02 .92	.58	.58		2	1 1/2	4 1/4	4	1 1/2 - 1"	4 1/2 - 4"	-
STRAKE BELOW Sheer- strake in Bridge ...	73	.79	.58	.58		2	1"	4"	4	1"	4"	-
POOP SIDE PLATING												
BRIDGE SIDE PLATING72				2	1"	4"	4	1"	4"	Lapped
FORECASTLE SIDE PLATING		.76	.50			1	7/8	3 1/2	1	7/8	3 1/2	-

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel— 13

Extending to Upper Deck (Sec. 3 c) 11 F; 1 G and

„ Deck next below 1 E Deck.

As per Rule 10.

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	✓	Flat Plate.		✓
STEM	✓	Casting as shown in Bochem. Vermin. Roller Bar 12 x 3 3/4		also 11 7/8 x 3 1/4
STERN FRAME {	Propeller Post	✓	Semi Ashd Bochem	✓
	Rudder ..	✓	Cast Iron Plans Vermin.	✓
RUDDER—A x D	✓	Semi balanced		✓
Speed of Vessel	✓	19 knots		✓
RUDDER mainpiece at head ...	✓	Forged steel.	19 7/8 dia Bochem	✓
			Vermin	✓
“ “ heel ...				
“ how constructed		Cast iron steel.	do	✓
“ double or single plate	✓	✓		✓
“ coupling, vertical or				
“ horizontal		Horizontal Coupling.		✓

STEEL.

Manufacturer's name or trade mark of the Steel used in the construction of the

[illegible]

Has the Steel been tested as required by the Rules? *Yes: Hatch, Walworth, Chapman.*

17 MAR 1928

EQUIPMENT No. 82992

LETTER *of*

ANCHORS.

Number of Certificate.	Anchor.	WEIGHT, ^{HEAD} STOCK	WEIGHT OF STOCK	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
30003	1st Bower	Cwts. qrs. lbs. 137 2 14	Cwts. qrs. lbs. 87 1 0	Tons. cwt. qrs. lbs. 80 7 2 0	Cwts. 132	Byers Imp. Stockless	not stated	Sunderland 11-5-27 <i>W. H. H. H.</i>
30001	2nd "	137 0 0	87 2 7	80 1 1 0	132	do	"	do do
30004	3rd "	116 1 0	70 0 14	73 12 2 0	112	do	"	do 12-5-27 do
	Collective weight.	390 3 14			376			
29985	Stream	53 3 0	33 3 0	44 12 2 0	51	do	"	do 1-5-27 do

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.	Length and Size per Table 53.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.	Breaking Test of Steel Wire.	Length and Size per Table 53.
	Length. Diam.	Stain- ing.	Supplied. Per Rule.	Length. Diam.					Length. Cir.	Tons. / Fathoms. Ins.	Length. Cir.
80498	330 3 6	161 1/2 216 3/4	1712-2-22 1701.	330 3 6	Stud Link	Carlisle & Co. Ltd.	Witham 19-5-27 H. Green.	TOWLINE... HAWSERS & WARPS	140 7 1/2 60 4 1/2 120 5 1/2	128 1/2 33	140 7 1/2 60 4 1/2 120 5 1/2
Iron Sinker Chain of Steel Wire	150 7 113			150 7							

Steering Gear, *Steam* *Brown Bros Electric Hydraulic Gear* ✓ *Steering Gear, Hand* ✓
14 lubbers 30'-0" 2 Peaboats 23'-0"
14 " 28'-1" 2 lubbers 30'-0"
2 " 28'-0" 2 lubbers 30'-0"
2 " 22'-6"
 Steering Chains, Size and Test *✓* *No. 1, 2, 3 & 4 2 1/2" 2 1/2" insulated.*
No ceiling chains except in way of Hatches where only 2 1/2"
 Ceiling in Holds, thickness and material *✓* *Cargo Battens, thickness, material and spacing 6"x2" in 9" clear of insulation.*
Solids to No. 1 Hatch Weather Dh.
3" gratings to Remainder Weather DKS
 Cargo Hatchways.—(Upper Deck) *F 36 3/8 x .44 + 36 3/8 x .36* Thickness of Hatches *3*
 Size of No. 1 Hatchway (Forward) *13'-6" x 14'* No. 2 *18' x 16'* No. 3 *15' x 18'* No. 4 *12' x 18'* No. 5 *9' x 18'* No. 6 *12' x 16'*
 Number of Shifting Beams and/or Fore and Afters *2 in Nos 1+3; 3 in No 2 and 1 in Nos 4, 5 & 6 Hatches.*
 For VICKERS-ARMSTRONGS LIMITED.
 Builder's Signature *S. H. Jan.* DIRECTOR.

GENERAL DECLARATION *This vessel has been built in accordance with the approved plans, the instructions contained in the Secretary's letter and in general conformity with the rules for the class contemplated. The materials and workmanship are good.*
The assigned freeboard has been verified and cut in on the vessel's sides.
The weather decks, girders, watertight bulkheads, doors & tunnels have been hose tested with satisfactory results. The double bottom tanks, deck tanks, peaks and oil bunkers have been tested under water pressure to rule requirements and found satisfactory.
The double bottom - 107-118 frames - has been arranged for the carriage of oil fuel. The vessel has a duck keel 129-186 frames.
Winches, windlasses & anchor gear, mechanical davits, W. J. Doors, hand pumps and steering gear have been tried under working conditions and found satisfactory.

This vessel is similar to H.T.S.P. OTRANTO Baw Reh No. 2157.

P. J. O

The amount of Entry Fee £ 12 : 0 : 0
 Special Survey Fee.... £ 574 : 6 : 0
Freeboard cert. 13. 15. 0
 Travelling Expenses, if any £ 3 : 19 : 7.

Fees applied for,

16th March 1928.

Received by me,

29. 3. 1928

I am of opinion the Vessel should be Classed *+100A1 with freeboard.*

State whether the Vessel has been built under Special Survey *✓*

Signature

Robert Stanley

Surveyor to Lloyd's Register of Shipping.

H & M

Certificate to be sent to

Barrow.

Date of issue

30/3/28

Committee's Minute

TUES. 27 MAR 1928 ✓

Character assigned

+100A1. With Freeboard

Lloyd's AccP + L.M.C. 3-28 P.O. C1
Altd for Oil Fuel, 3-28, P. Pabors 1500F

My



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Lloyd's Register Foundation

W347-0101(212)

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.)

LIST of Plans (as built) Midship Section.

Plan & Profile (as built) will be sent later.

Approved plans. (37 in all.)

Profile, midship section: equipment: riveting scheme: deck plans ②: pillars & girders ③: W.T. bulkheads ②: cross framing: tunnels: engine seating ②: Substructure topsides ③: Rudder ②: stem: oil bunkers ④: wing tanks in engine room: cargo hatches: guide at hatch ends: cargo doors: Vent to deck hull: masts: anchor crane. McShallan Davit ⑤. Test certificate 12.

8 off enclosed.

It is requested that the approved plans may be returned to this Port when dealt with as these plans are required for dealing with the sister vessel "ORONTES" (Victory Armstrong No 637) now being built here.

Particulars of Drop Test of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	79.1.15	MR	N ^o 540	10.15/2/27	Darlington.
	2nd "	79.2.14	MR	547	10.15/3/27	"
	3rd "	63.3.15	MR	491	31/7/25	"
	Steamer	30.3.18	MR	529	11.21/1/27	"

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge 361 ft., Forecastle 78 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated. Within Bridge 299

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) 3 decks (st) weather deck teak; 2nd Deck (st) in fore hold and in N^o 5 & 6 holds; 5th deck in N^o 1 hold.

Official No. 146026; Signal Letters

If bottom of Vessel has been coated Inside. Yes give

particulars of composition Cement on bottom and cement wash in water tanks; oil coated in oil fuel tanks.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	117	233	Fore peak tank,	23.5	97
Double bottom, under Engines and Boilers,	144	906	After peak tank,	32.0	172
Double bottom, if under Engines only, <u>under transverse oil bunkers (oil)</u>	33	224	Deep tank aft, at Tunnels (side & centre)	45.0	322
Double bottom, if under Boilers only,	218	735	Deep tank forward, at Engine Room Sides.	57.0	336
Double bottom, forward,	218	735	Other tanks, if fitted,		
	512	2098	(If necessary, furnish further information by sketch.)		

*The wells are not to be included in the lengths of the tanks. as wells are only half depth. See plans.

Order for Special Survey No. 627

Date 15 March 1926

Dates of Surveys held while building

1926 Mar 10. 15. 20. 25. 30. Apr 5. 10. 15. 20. 25. May 1. 6. 11. 16. 21. 26. June 1. 6. 11. 16. 21. 26. July 1. 6. 11. 16. 21. 26. Aug 1. 6. 11. 16. 21. 26. Sept 1. 6. 11. 16. 21. 26. Oct 1. 6. 11. 16. 21. 26. Nov 1. 6. 11. 16. 21. 26. Dec 1. 6. 11. 16. 21. 26. 1927 Jan 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Feb 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Mar 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Apr 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. May 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. June 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. July 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Aug 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Sept 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Oct 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Nov 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Dec 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. Total No. of Visits. 381