

## STEEL STEAMER OF MOTORSHIP

Received at London Office

7 JUN 1943

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

NEWCASTLE-ON-TYNE

No.

101287

Survey held at

South Shields

Date First Survey 29<sup>TH</sup> JULY, 1942Last Survey 29<sup>TH</sup> APRIL, 1943

On the

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

Steel Single Screw "EMPIRE PERDITA"

Machinery Amidships.

State Type

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

Intermediate between F.S. &amp; C.S.S.

State Type of Erections

File only.

TONNAGE under Tonnage Deck...

6549.34

CLASS +100. A.1.

State if with freeboard as condition of Class

Yes.

Built at

South Shields

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 425.00

Launched

10/3/43

Yard No.

533

Total

Breadth (greatest moulded)

B 56.00

Builders

John Redhead &amp; Son Ltd.

Gross Tonnage

4028.41

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

D 34.66

Owners

Ministry of War Transport.

Register Tonnage

4845.46

1st Longitudinal Number (L x D)

= 15193.46

Managers

J. Morrison &amp; Son

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

## REGISTERED DIMENSIONS.

FEET.

Length

420.9

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

23.3

Residence

Newcastle.

Breadth

56.2

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

11.24

Port of Registry

South Shields.

Depth

35.2

Do. Long Bridge to top of keel

26' 4 1/2"

If surveyed while building, afloat, or in dry dock

Building.

## 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	"	
" " from 1/2 length amidships to Collision bulkhead	27		" " Reversed Frame	"	
" " in peaks	24		" " Vertical Struts	"	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/2 x 54	
Frame Amidships, Angle, E or F	12 3 1/2 9/16		" " top Angles	Double 3 1/2 3 1/2 48	
" " Extends up to	2nd & upper deck alternately		" " bottom Angles	Double 4 4 54	
Reversed Frame Amidships, Angle	"		Side Girders, No. each side and thickness	Two 6 3/4 x 42 1/2, Two 6 3/4 x 42 1/2	
" " Extends up to	"		Margin Plate depth (excl. of flange) and thickness	36 x 54	
Depth of Framing Girder	"		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	6 6 44	Single
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	as above		" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	6 6 44	Single
" " Second 'tween Decks, Angle, E or F	"		" " Gussets, spacing and scantling abaft 1/2 len. from stem	14 x 42	
" " Third " " " "	"		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	14 x 42	
" " from 1/2 len. for'd. to 15% len. from Stem	12 3 1/2 9/16		Tank Side Brackets, height above base line at toe of Frame and thickness	9 1/2 x 44	
" " in Peaks, Angle, E or F	8 3 1/2 35		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 4" x 5 1/4"		Breadth and thickness of Middle Line Strake	7 1/4 x 50	
State if Frame Joggled	Yes		Thickness of remainder in Holds	44	Increased by .08 under hold plating
Are the scantlings and arrangements in the Panting Area 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?	Yes	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes		BEAMS.		
ANGLE BOTTOM.			Uppermost Continuous Deck, amidships	8 3 1/2 42	
Floors, Depth and thickness at mid-line in Holds			" " in Wells, Angle, E or F	"	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, E or F	31"	
Middle Line Keelson, on Floors, Angles, E or F			Spacing		
" " Through Plate or Intercostal Plate			Second Deck, amidships, Angle, E or F	9 3 46	
" " Foundation Plate on Floors			Spacing	31"	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, E or F	"	
Side Keelsons, No. each side			Spacing	"	
" " thickness of Intercostal Plate			Fourth Deck, amidships, Angle, E or F	"	
" " Angles			Spacing	"	
DOUBLE BOTTOM.			Poop Deck, Angle, E or F	"	
Solid Floors, thickness and spacing	42 @ 31"		Spacing	"	
" " Are Frame and Reversed Frame joggled?	Yes		Bridge Deck, Angle, E or F	"	
Bracket Floors, breadth and thickness at middle line	"		Spacing	"	
" " breadth and thickness at margin plate	"		Forecastle Deck, Angle, E or F	9 x 3 x 46	
			Spacing	6 x 3 x 44	
				24 x 24	



PILLARS AND DECKS.			
PILLARS, No. of Rows.....	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.
Stringer Plate, breadth and thickness in way of Bridge .....	✓		✓
Thickness of Plating abreast Deck openings 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 .....	✓		✓
<b>Third Deck.</b>			
Stringer Plate, breadth and thickness .....	✓		✓
If Plated, state thickness .....	✓		✓
<b>Fourth Deck.</b>			
Stringer Plate, breadth and thickness .....	✓		✓
If Plated, state thickness .....	✓		✓
<b>Poop Deck.</b>			
Stringer Plate, breadth and thickness .....	✓		✓
Plating, Sheathing, material and thickness .....	✓		✓
<b>Bridge Deck.</b>			
Stringer Plate, breadth and thickness .....	✓		✓
Plating, Sheathing, material and thickness .....	✓		✓
<b>Forecastle Deck.</b>			
Stringer Plate, breadth and thickness .....	✓		✓
Plating, Sheathing, material and thickness .....	✓		✓

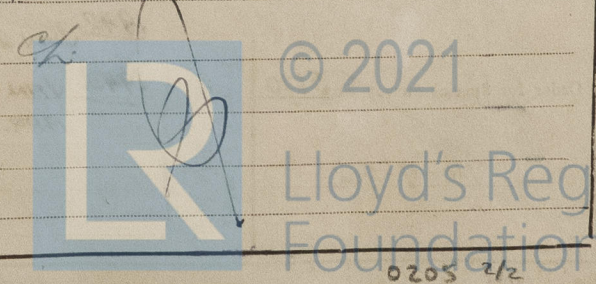
SCANTLINGS.				RIVETING. (Amidships).							
STRAKES.	AS IN VESSEL.		ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. No. 1	BUTTS.		STRAPPED OR LAPPED.				
	AMIDSHIPS.	FORWARD. AFT.			SINGLE OR DOUBLE.	RIVETS.		RIVETS.			
FLAT PLATE KEEL .....	54	80	40	40	Double.	7/8	3 1/2	Three.	7/8	4	28. Double, single or lapped str.
" DELG. (if any) .....	A.C.O.	65	50	50	Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
BOTTOM PLATING, No. of Strakes .....	B.	60	50	50	Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
BILGE PLATING, No. of Strakes .....	E.	64	50	50	Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
SIDE PLATING, No. of Strakes .....	F.A.	60	45	45	Double.	7/8	3 1/2	Three.	7/8	3 1/2	28. Double, single or lapped str.
UPPER DECK, Sheer-strake in Wells .....	K 7 1/2	73	46	46	Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
UPPER DECK, Sheer-strake in Bridge .....					Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
STRAKE BELOW SHEER-strake in Wells .....					Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
STRAKE BELOW SHEER-strake in Bridge .....					Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
POOP SIDE PLATING .....					Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
BRIDGE SIDE PLATING .....					Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.
FORECASTLE SIDE PLATING .....					Double.	7/8	3 1/2	Four.	7/8	3 1/2	28. Double, single or lapped str.

WATERTIGHT BULKHEADS.				FORGINGS and CASTINGS.							
Total No. of W.T. BULKHEADS in Vessel .....	Extending to Upper Deck (Sec. 3 c) .....	Deck next below .....	As per Rule .....	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.				
								KEEL, Bar .....	STEM .....	STERN FRAME .....	Speed of Vessel .....

EQUIPMENT No. 40052-75				LETTER A.F.				ANCHORS.			
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 52.	Description of Anchor.	Makers.	Where and when tested and Superintendent.			
1555	1st Bower	68 1 18	68 1 18	52 18 3 0	68 1	Stockless	Highly, Sm.	N.B. 7/4/02 Ref.			
1550	2nd "	67 3 0	67 3 0	52 10 - -	68 1	do	do	do 31/4/02 Ref.			
5555H	3rd "	19 0 14	4 3 14	19 19 2 2	19 1	Do. (piped 1/2")	✓	C.H. 12/11/02 Thomas.			

CHAIN CABLES.				HAWSERS AND WARPS.			
Number of Certificate.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.	Length and size supplied.	Test per Certificate.	WEIGHT OF CHAIN CABLE.	Length and size supplied.
3235	225 2 1/2	76 5 1/2	602-2-0	720 4	270 2 1/2	270 2 1/2	270 2 1/2
Iron Stream	90 5	72 3	-	90 5	-	-	-

GENERAL DECLARATION.			
It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel			
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo			
This vessel has been built in accordance with the approved plans, the Secretary's Letter of various date in general conformity with the requirements of the Rules. The materials & workmanship are good. The double bottom, peak & deep tanks have been tested by water pressure & the W.T. plates, weather decks & tunnel have tested as required by the Rules & found satisfactory. The pumping arrangements have been tested. The windlass & steering & auxiliary steering gear have been operated under power as the vessel lay at the Builders quay & found satisfactory. The assigned grabrands have been marked on the vessel's sides, verified & sent in. Windlass & directional windlass are fitted. The equipment of anchors & cables has been reduced in accordance with the Emergency Regulations & as per Secretary's Letter. Cargo battens are not fitted in the holds or tween decks. Wood hatch covers are not fitted to No. 1 & 6 hatchways on the 2nd deck.			





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.)

Partially fabricated B Type Steam and vessel. Similar to same Under No 529  
Empire Knakin, except that Water Ballast is carried in the double bottom tank under  
the boilers.

Certificate enclosed

Fabricated stem frame.  
Rudder Head & frame.  
Steel Mast  
Steel Arris post.

Plans not returned after submission with P.R. report for Empire Lakeland

PARTICULARS OF ELECTRIC WELDING (if employed)

Mures.

2nd deck Stringer chock plates. - Bulkhead brackets to tank top. - Girders to margin.  
Alternate length of flat keel plate.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

Cruiser Steam - Lloyd's A.S.C.P. -

Cargo battens not fitted. - E.S.D. - O.F.

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

1st Bower	43-0-3 (welded pin) - J.D. - 3944 - 13-1-42
2nd "	42-2-12 " " - J.D. - 3946 - 13-1-42
3rd "	

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle 39'3" ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 169051 Signal Letters B.F.G.Z. Extreme Breadth over Belting (Circ. 1011) Over-all Length 446'4 1/2 (Circ. 1703)

No. and Material of Decks 2 Decks (steel)

Parts of Bottom of Vessel coated with cement or approved composition

Painter Room double bottom tank & bulgers only  
Remainder cement washed.

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,	62.00	230	Fore peak tank,	20'	110 ✓
Double bottom, under Engines and Boilers,			After peak tank,	20	105 ✓
Double bottom, under Engines only,	28.42	130	Deep tank, aft,	-	345 ✓
Double bottom, under Boilers only,	18.08	85	Deep tank, forward, (P.A.)	-	250 ✓
Double bottom, forward,	209.75	825	Other tanks, if fitted, (P.B.)	-	396 ✓
Total length (if continuous) and Capacity	318.25	1270 ✓	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 5670

Date 14-9-42

Dates of Surveys  
held while building

1942. JULY. 29. AUG. 4. SEPT. 2. 8. 17. 24. OCT. 13. 29. DEC. 3. 9. 18. 21.

1943. JAN. 4. 6. 18. 19. 20. 26. 29. FEB. 5. 9. 12. 15. 18. 22. 25. 27. MAR. 2. 4. 5. 6. 8. 9. 10. 17. 30. 31.

APR. 1. 2. 5. 6. 7. 9. 12. 14. 16. 17. 20. 21. 22. 23. 27. 29.

Total No. of Visits 58