

STEEL STEAMER OR ~~MOTORSHIP~~

Received at London Office 22 MAY 1942

State of Report has been sent on the Freeboard of the Vessel *yes*  
State of Report is sent on the Machinery of the Vessel *yes*

Date of completion of report *19 May 1942* Port of *Sunderland* No. *33398*  
Survey held at *Sunderland* Date First Survey *29<sup>th</sup> July 1941* Last Survey *16<sup>th</sup> May 1942*  
On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single Screw* *S.S. EMPIRE KEATS* Machinery *amidships*  
State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Intermediate between F.S. & C.S.S.* State Type of Erections *Yock on upper deck*

TONNAGE under 6572.74 CLASS +100 A.1. State if with freeboard as condition of Class *yes* Built at *Sunderland*  
Tonnage Deck... Do. of space or spaces between Tonnage Dk. and Upper Dk. Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) *L 425.0*  
Breadth (greatest moulded) *B 56.0*  
Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 37.67*  
1st Longitudinal Number (L x D) = *15193.75*  
2nd Numeral L x (B + D) = *38993.75*  
Framing Depth "d," at middle of length. See Sec. 3 (1d) *23.3*  
Proportions—Depth to Length—Uppermost continuous deck to top of keel *11.27*  
Do. Long Bridge to top of keel *26-75/8*  
Gross Tonnage *7035.12*  
Register Tonnage *4948.64*  
REGISTERED DIMENSIONS. FEET.  
Length *431.0*  
Breadth *56.3*  
Depth *35.2*  
Launched *19<sup>th</sup> March 1942* Yard No. *470*  
Builders *Short Brothers, Sunderland*  
Owners *Ministry of War Transport*  
Managers *Charlton, McAllum & Co., Ltd.*  
(Where necessary to be entered in Reg. Book.)  
Residence *Newcastle-on-Tyne*  
Port of Registry *Sunderland*  
If surveyed while building, afloat, or in dry dock *while 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 $\frac{1}{2}$ length amidships to Collision bulkhead	27		" " Reversed Frame	✓	
" " in peaks	24		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 $\frac{1}{4}$ x 54	
Frame Amidships, Angle, [ or ]	12 x 3 $\frac{1}{2}$ x 32.9 1/5	✓	" " top Angles	3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 48	
" " Extends up to	ALTERNATES 8 H.E. BEAMS		" " bottom Angles	4 x 4 x 54	
" " 1/2 TUNNEL RECESS	10 x 3 $\frac{1}{2}$ x 48L		Side Girders, No. each side and thickness i.e.	6 x 3 $\frac{1}{2}$ x 42L (SHELL)	
Reversed Frame Amidships, Angle	✓		Margin Plate depth (excl. of flange) and thickness	36 x 54	
" " Extends up to	✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem	6 x 6 x 44	
Depth of Framing Girder	12		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{2}$ len. from stem to Panting Area	6 x 6 x 44	
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]	8 x 3 $\frac{1}{2}$ x 35L		" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	16 x 4.2 CONTINUOUS FLS 2 $\frac{1}{2}$	
" " Second 'tween Decks, Angle, [ or ]	5 x 3 $\frac{1}{2}$ x 36 O.A. AFT		" " Gussets, spacing and scantling from forward $\frac{1}{2}$ len. from stem to Panting Area	19 x 4.2 20 20	
" " Third " " "	✓		Tank Side Brackets, height above base line at toe of Frame and thickness	95 x 44	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	12 x 3 $\frac{1}{2}$ x 32.9 1/5 [ ✓		INNER BOTTOM PLATING.		
" " in Peaks, Angle or [	8 x 3 $\frac{1}{2}$ x 35		Breadth and thickness of Middle Line Strake	71 $\frac{3}{4}$ x 50	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	TO UPPER DECK FLOOR ON ALTERNATES 7/8" 6 5/16 8 3/32		Thickness of remainder in Holds	44, 52 1/2 PLATES	
State if Frame Joggled	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 the Panting Area in accordance with the Rules and/or as approved?	yes		BEAMS.		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	yes		Uppermost Continuous Deck, amidships in Wells, Angle, [ or ]	8 x 3 $\frac{1}{2}$ x 42	
SINGLE BOTTOM.			" " in way of Bridge, Angle, [ or ]	✓	
Floors, Depth and thickness at mid-line in Holds	✓		Spacing	EVERY FRAME	
Height of Brackets at side above base line at toe of frame	✓		Second Deck, amidships, Angle, [ or ]	9 x 3 $\frac{1}{2}$ x 39	
Middle Line Keelson, on Floors, Angles, [ or ]	✓		Spacing	EVERY FRAME	
" " Through Plate or Intercoastal Plate	✓		Third Deck, amidships, Angle, [ or ]	✓	
" " Foundation Plate on Floors	✓		Spacing	✓	
" " Flat Plate Keel Angles	✓		Fourth Deck, amidships, Angle, [ or ]	✓	
Side Keelsons, No. each side	✓		Spacing	✓	
" " thickness of Intercoastal Plate	✓		Poop Deck, Angle, [ or ]	✓	
" " Angles	✓		Spacing	✓	
DOUBLE BOTTOM.			Bridge Deck, Angle, [ or ]	✓	
Solid Floors, thickness and spacing	4.2 EVERY FRAME		Spacing	✓	
" " Are Frame and Reversed Frame joggled?	yes		Forecastle Deck, Angle, [ or ]	6 x 3 x 44 TO 9 x 3 $\frac{1}{2}$ x 42	
Bracket Floors, breadth and thickness at middle line	✓		Spacing	EVERY FRAME	
" " breadth and thickness at margin plate	✓				







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.)

SISTER VESSELS:—

S.S. EMPIRE NEWTON SLP Rpt. No 33287  
S.S. EMPIRE STORY do do 33351

The vessel struck the quay wall at South Dock, Sunderland on 19th March '42 whilst proceeding to the Engine Builder under tow. The following permanent repairs effected:—

- 1 Shell plate "F" 7 port side removed faired and refitted
  - 1 shell plate "F" 8 port side faired in place
  - 2 frames nos. 45 and 46 were partly renewed and the butts electrically welded and additional reinforcement fitted in the form of efficient straps
- The riveting and caulking in way were overhauled and made tight.

PARTICULARS OF ELECTRIC WELDING (if employed) W.T. bulkhead stiffener brackets to tank top, tank side gussets to tank top,  $\frac{1}{2}$  bulkheads to tank top, fore and after peak tank top to shell, ventilator coamings to deck. Second deck stringer cheeks to shell and deck. Alternate butts of keel, second deck girder rider plates to girder gusset plates.

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

D.F.

E.S.D. ✓

"Six divisional W.T. bulkheads in tween decks" ✓

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

1st Bower	44-1-18	R.H.T.G.	4181	23-8-41
2nd "	45-1-5	R.H.T.G.	4215	30-8-41
3rd "				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 39.5 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

Official No. 169019 Signal Letters ✓ Extreme Breadth over Belting (Circ. 1611) ✓ Over-all Length (Circ. 1703) 446.5 ✓

No. and Material of Decks 2 Decks (steel)

Parts of Bottom of Vessel coated with cement or approved composition Cement in double bottom tanks, peak tanks and bilges

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	105.91	309	Fore peak tank,	22.0	117
Double bottom, under Engines and Boilers,	46.5	221	After peak tank,	20.0	110
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	✓
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,	✓	✓
Double bottom, forward,	209.75	839	Other tanks, if fitted,	✓	✓
Total length (if continuous) and Capacity	362.16	1369	(If necessary, furnish further information by sketch.)		

Order for Special Survey No 2996

Date 11. 8. 41

Dates of Surveys held while building

1941. July. 29. Aug. 14. 15. 26. Oct. 6. 7. 13. 15. 16. 22. 24. Nov. 3. 4. 12. 13. 18. 19. 21. 24. 25.  
Dec. 1. 2. 8. 10. 11. 12. 15. 16. 17. 19. 23. 24. 26. 29. 30. 1942. Jan. 1. 5. 7. 9. 12. 13. 14. 15. 16. 20. 21. 22. 23. 26. 27.  
28. 29. 30. Feb. 2. 4. 5. 6. 10. 11. 13. 14. 16. 18. 19. 23. 24. 25. 26. Mar. 2. 3. 4. 5. 10. 11. 13. 15. 17. 18. 19. 20. 23. 27. 28.  
Apr. 2. 3. 8. 10. 11. 13. 14. 15. 20. 21. 22. 27. 28. 29. 30. May. 1. 4. 5. 6. 7. 8. 11. 12. 13. 14. 15. 16.

Total No. of Visits 111