

STEEL STEAMER or MOTORSHIP.

Received at London Office... -8 JUL '1936

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 *6th July 1936* Port of *Newcastle upon Tyne* No. *93942*
 Survey held at *Walter on Tyne* Date First Survey *30 July 1935* Last Survey *3rd July 1936*
 On the *Swiss Screw "UMTALI"* Machinery *amidships*
 State Type *Full scantling with freeboard* State Type of Erections *Perf. Bridge Fore castle*

TONNAGE under Tonnage Deck... *6648.49* CLASS *+100A-1* State if with freeboard as condition of Class *Yes* Built at *Walter on Tyne*
 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 445.0* Launched *25th March 1936* Yard No. *1492*
 Total *✓* Breadth (greatest moulded) *B 61.0* Builders *Swan Hunter & Wigham Richardson Ltd.*
 Gross Tonnage *8158.11* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 35.5* Owners *Messrs Bullard King & Co Ltd.*
 Register Tonnage *5083.79* 1st Longitudinal Number (L x D) *✓* Managers *✓*
 2nd Numeral L x (B + D) *✓* (Where necessary to be entered in Reg. Book.)
 REGISTERED DIMENSIONS. FEET. Residence *✓*
 Length *451.4* Framing Depth "d," at middle of length. See Sec. 3 (1d) *22.68* Port of Registry *London*
 Breadth *61.2* Proportions—Depth to Length—Uppermost continuous deck to top of keel *12.50* If surveyed while building, afloat, or in dry dock
 Depth *32.1* Draught Moulded *25' 4 1/4"* *10.10* Building, afloat & in dry dock.

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	<i>32"</i>	<i>✓</i>	Bracket Floors, Frame	<i>9 3 1/2 .44</i>	
" " from 3/8 length to Collision bulkhead.....	<i>27"</i>	<i>✓</i>	" " Reversed Frame.....	<i>9 3 1/2 .38</i>	
" " in peaks.....	<i>24"</i>		" " Vertical Struts.....	<i>9 3 1/2 .38</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>44 3/4 x .58</i>	
Frame Amidships, Angle <i>E</i> or <i>C</i>	<i>12 3 1/2 .54</i>	<i>when No 3rd deck in way of Bridge</i>	" " top Angles.....	<i>3 1/2 3 1/2 .54</i>	
" " Extends up to.....	<i>9 3 1/2 .40</i>	<i>to 1st hold clear of Panting</i>	" " bottom Angles.....	<i>5 5 .62</i>	
Reversed Frame Amidships, Angle.....	<i>10 3 1/2 .44</i>	<i>No 3rd hold</i>	Side Girders, No. each side and thickness	<i>2 x .42</i>	
" " Extends up to.....	<i>2nd deck</i>		Margin Plate depth (excl. of flange) and thickness	<i>39 x .55</i>	
Depth of Framing Girder.....	<i>12 10 9"</i>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem.....	<i>5 5 .46</i>	
Frames in Uppermost Continuous 'tween Decks, Angle <i>E</i> or <i>C</i>	<i>8 3 1/2 .36</i>	<i>in way of Bridge</i>	" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem.....	<i>5 5 .46</i>	
" " Second 'tween Decks, Angle <i>E</i> or <i>C</i>	<i>4 3 1/2 .36</i>	<i>clear of Bridge</i>	" " Gussets, spacing and scantling abaft 1/2 len. from stem.....	<i>'43 Every</i>	
" " <i>Second Third</i> " " <i>No 3rd hold</i>	<i>9 3 1/2 .40</i>	<i>with 4 1/2 x 3 1/2 .40 angle union on all frames</i>	" " Gussets, spacing and scantling forward 1/2 len. from stem.....	<i>'43 Every</i>	
Framing in Peaks, Angle or <i>C</i>	<i>10 3 1/2 .44</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>69 1/4 x .49</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships.....	<i>8 3 1/2 .375</i>		INNER BOTTOM PLATING.		
State if Frame Joggled.....	<i>7/8 - 5 1/4"</i>	<i>Yes</i>	Breadth and thickness of Middle Line Strake.....	<i>53 1/2 x .52</i>	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars.....	<i>Side stringers as approved & frames with new frames 4 1/2 x 3 x .40</i>		Thickness of remainder in Holds.....	<i>45 x increased .08 under hatch covers</i>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars.....	<i>additional 5 height 3rd hold. Buckle similar bottom frames Bottom shell plating increased all as per app'd plans</i>		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?.....	<i>Yes</i>	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds.....	<i>✓</i>		Uppermost Continuous Deck, amidships in Wells, Angle <i>E</i> or <i>C</i>	<i>9 3 1/2 .38</i>	
Height of Brackets at side above base line at toe of frame.....	<i>✓</i>		" " in way of Bridge, Angle <i>E</i> or <i>C</i>	<i>9 3 1/2 .38</i>	
Middle Line Keelson, on Floors, Angles, <i>E</i> or <i>C</i>	<i>✓</i>		Spacing.....	<i>Every</i>	
" " Through Plate or Intercoastal Plate.....	<i>✓</i>		Second Deck, amidships, Angle <i>E</i> or <i>C</i>	<i>9 3 1/2 .53</i>	
" " Foundation Plate on Floors.....	<i>✓</i>		Spacing.....	<i>Every</i>	
" " Flat Plate Keel Angles.....	<i>✓</i>		<i>3rd No 1 Hold</i>	<i>10 3 1/2 .42</i>	
Side Keelsons, No. each side.....	<i>✓</i>		Third Deck, amidships, Angle <i>E</i> or <i>C</i>	<i>49 3 1/2 .38</i>	
" " thickness of Intercoastal Plate... <i>✓</i>	<i>✓</i>		Spacing.....	<i>Every</i>	
" " Angles..... <i>✓</i>	<i>✓</i>		<i>THIRD No 3 Hold</i>	<i>9 3 1/2 .38</i>	
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle <i>E</i> or <i>C</i>	<i>9 3 1/2 .38</i>	
Solid Floors, thickness and spacing.....	<i>43 every 2nd</i>		Spacing.....	<i>Every</i>	
" " Are Frame and Reversed Frame joggled?.....	<i>Frame Yes Rev No</i>		Poop Deck, Angle <i>E</i> or <i>C</i>	<i>8 3 .36</i>	
Bracket Floors, breadth and thickness at middle line.....	<i>33 1/2 x .43</i>		Spacing.....	<i>Every</i>	
" " breadth and thickness at margin plate.....	<i>33 1/2 x .43</i>		Bridge Deck, Angle <i>E</i> or <i>C</i>	<i>9 3 1/2 .40</i>	
			Spacing.....	<i>Every</i>	
			Forecastle Deck, Angle <i>E</i> or <i>C</i>	<i>8 3 .375</i>	
			Spacing.....	<i>Every</i>	

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>Two</i>			Stringer Plate, breadth and thickness in way of Bridge	<i>66" x .38</i>	
" in 'tween Decks, Size and Spacing	<i>single spaced pillars as approved</i>		Thickness of Plating abreast Deck openings) in way of Wells	<i>.34</i>	
" " " " "			Thickness of Plating abreast Deck openings) in way of Bridge	<i>.30 x .34</i>	
" in Holds " "			Thickness of Plating within line of openings...	<i>.30 x .34</i>	
" " " " "			If Sheathed, material and thickness	<i>none</i>	
Centre Line Bulkhead.			Third Deck. No 1 Hold.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	<i>37" x .34</i>	
Plating, thickness of	✓		If Plated, state thickness.....	<i>.30</i>	
STRINGERS AND DECKS.			THIRD		
Uppermost Continuous Deck.			Fourth Deck. No 3 Hold.		
Stringer Plate, breadth and thickness in Wells	<i>63" x .76</i>		Stringer Plate, breadth and thickness.....	<i>.28</i>	
" " " " in way of Bridge	<i>74 1/2" x .42</i>		If Plated, state thickness	<i>.28</i>	
" Angle in Wells	<i>6 6 .76</i>		Poop Deck.		
Thickness of Plating abreast Deck openings) in way of Wells	<i>.60</i>		Stringer Plate, breadth and thickness	<i>37" x .36</i>	
Thickness of Plating abreast Deck openings) in way of Bridge	<i>.34</i>		Plating, Sheathing, material and thickness ...	<i>.26 Plating 2 1/2" Barnes w. w. 4' panel comp. in acc. to spec.</i>	
Thickness of Plating within line of openings...	<i>.48 x .34</i>		Bridge Deck.		
If Sheathed, material and thickness	<i>2 1/2" Barnes w. w. 4' panel. Comp. in acc. to spec.</i>		Stringer Plate, breadth and thickness.....	<i>70" x .48</i>	
Second Deck.			Plating, Sheathing, material and thickness ..	<i>.46 x .42. 2 1/2" Barnes w. w. 4' panel comp. in acc. to spec.</i>	
Stringer Plate, breadth and thickness in Wells...	<i>66" x .42</i>		Forecastle Deck.		
			Stringer Plate, breadth and thickness.....	<i>35" x .36</i>	
			Plating, Sheathing, material and thickness ..	<i>.26 2 1/2" Barnes w. w.</i>	

SHELL PLATING.

SCANTLINGS.						RIVETING. <i>amidships</i>							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>No</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	51"	.84	.74	.74	/	Double	1	4	Four	1	4	lapped	
" DBLG. (if any)		✓	✓	✓		✓			✓				
BOTTOM PLATING, No. } of Strakes{		.66	.50	.50	A	Double	7/8	3 3/4	Four	7/8	3 1/2	"	
BILGE PLATING, No. of } Strakes{		.66	.50	.50	E	"	7/8	3 3/4	Four	7/8	3 1/2	"	
SIDE PLATING, No. of } Strakes{		.65	.47	.47	F	"	7/8	3 3/4	Three	7/8	3 1/8	"	
UPPER DECK, Sheer- } strake in Wells.....{	75"	1.15 at break.	.85	.47	G	"	1 1/2	4 1/2 - 4	Five & Four	1 1/2	5 1/2 - 4	"	
UPPER DECK, Sheer- } strake in Bridge ...{		.65			H	"	1 3/8	4 3/8	Four & three	1 3/8	4 5/8	"	
STRAKE BELOW Sheer- } strake in Wells.....{		.65	.47	.47	J	"	7/8	3 3/4	Three	7/8	3 1/8	"	
STRAKE BELOW Sheer- } strake in Bridge ...{		.65			J	"	7/8	3 3/4	Three	7/8	3 1/8	"	
POOP SIDE PLATING40		Single	3/4	3 1/2 - 3	one	3/4	2 7/8	"	
BRIDGE SIDE PLATING61				Double	7/8	3 3/4	Three	7/8	3 1/2	"	
FOREC'TLE SIDE PLATING			.42			Single	3/4	3	one	3/4	2 7/8	"	

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)

„ Deck next below

As per Rule

See London letter 8/1/35 - 8
Boulders letter 22/8/35 - 11

STIFFENERS.

		Plating Thickness.	VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D , Upper tween decks		·26	5x3x.287	30"		
"	" Second "					
"	" Third "					
"	" Holds	·43-·29	12x36x $3\frac{1}{2}$ x 50' 60.	30"		
COLLISION	" (in Hold)	·46-·32 ·26	8x3x.467 6 8x3x.257 6	6x3x.287 4x2x.30	} spaced 24".	
AFTER PEAK	" "	·43-·30	7x3x.287 6 5x3x.407	24"		

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM		rolled bar 10 = 2 7/8		
STERN FRAME {	Propeller Post	cast 10" x 2 1/2" x 1 1/2" x 1 1/2"	Strommens Verkeid	
	Rudder			
Speed of Vessel	15 knots			
RUDDER—Type	head Forging 11 7/8		Root made - Hoerder - Hutter. versen AG	
" A x D				
" Diam. of head	Forging 11 7/8			
" Mainpiece at top pintle	Rudder frame		Strommens Verkeid	
" " heel	as per approved plan			
" how constructed	double plate built as per plan			
" double or single plate coupling, vertical or horizontal	vertical + intermediate			

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

STEEL.

Consell Iron Co, South Dunham S & Co, Dorman Long Co, Appleby, Fordingham S & Co,
Cargo Fleet Iron Co, Skinningrove Iron Co, Ransie Co, Colville Co.

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.)

The approved plans (10 in number) + including forging reports.
are forwarded herewith.
midship section + Profile + decks (as built) are forwarded.
The approved plans for sister vessel No 1480 "UMTATA" are also forwarded.

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

Cruiser ship

Refined Machinery.

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	2nd "	3rd "
	94854	94853	94855
	Dreadnought Type	"	"
	14/1/36	14/1/36	14/1/36
	50-2-7	50-3-7	49-2-21
	23-2-21	23-0-14	23-3-7
	Webster	"	"
	H Green	"	"

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 44.67 ft., R.Q.D. ft., Bridge 192.0 ft., Forecastle 32.08 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated *not joined*

No. and Material of Decks 2 decks steel - upper wood sheathed.
3rd deck in No 1 Hold, Plat form deck in No 3 hold.

Official No. 164664

Signal Letters G.Y.W.B.

Is bottom of vessel coated with cement

Part

if not give

particulars of composition

No 1. 4. 5. 6 tanks:—out side strakes flushed with cement.
No 2 "Bottom cemented above rivet heads.
No 3 "Bituminous enamel. See Lond Letter 1.7.35 for 1480.
F+A peak tanks:—Cemented Bilges:—Cemented.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	114.6	320	Fore peak tank,		80
Double bottom, under Engines and Boilers,	—	—	After peak tank,		242
Double bottom, if under Engines only,	40.0	195	Deep tank, aft,		
Double bottom, if under Boilers only,	69.3	dry tank.	Deep tank, forward,		
Double bottom, forward,	145.6	425	Other tanks, if fitted,		
Total capacity of double bottom		940	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No. 51994

Date 30.7.35

Dates of Surveys held while building

1935 July 30. 31. Aug. 1. 2. 7. 9. 14. 21. 26. 29. Sep. 2. 4. 5. 10. 12. 16. 17. 18. 23. 26. 30. Oct. 2. 3. 4. 9. 11. 14. 16. 18. 22. 28. 30. Nov. 1. 2. 4. 6. 11. 15. 18. 19. 22. 26. Dec. 2. 9. 18. 19. 20. 23. Jan. 7. 9. 16. 24. 28. Feb. 4. 13. 18. 26. 27. Mar. 2. 4. 10. 17. 18. 20. 24. 25. Apr. 7. 8. 17. 28. 29. May 6. 12. 15. 18. 27. 28. June 16. July 3.

Total No. of Visits

82.