

State if Report is sent on the Machinery of the Vessel.....YES.....

Survey held at PORT GLASGOW Date First Survey 21ST DECEMBER. 1943. Last Survey 21ST DECEMBER. 1944

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) SINGLE SCREW STEAMER "EMPIRE KUMASI"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) COMPLETE SUPERSTRUCTURE, NO TONNAGE OPENING State Type of Erections FORECASTLE

CLASS + 100 A.1.

State if with freeboard } YES
as condition of Class }

Built at PORT GLASGOW

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

Length from fore part of stem to after part of stern } L 425.86
post on summer L.W.L. See Sec. 3 (1a)

Launched 30TH OCTOBER 1944 Yard No. 465

Breadth (greatest moulded) B 56.0

Builders *WM HAMILTON & CO LTD*

Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous } D 36.92
deck. See Sec. 3 (1c) FOR SCANTLING. 35.75

Owners MINISTRY OF WAR TRANSPORT.

1st Longitudinal Number (L \times D).....= 15224

Managers JOSEPH ROBINSON & SONS
(Where necessary to be entered in Reg. Book)

2nd Numeral $L \times (B + D)$ = 39072

Residence 1 HOWARD ST. NORTH SHIELDS.

Framing Depth "d," at middle of length. See } 23.9
Sec. 3 (1d).....

Port of Registry.....**GREENOCK**

Proportions—Depth to Length—Uppermost continuous deck to top of keel } **11.53.**

If surveyed while building, afloat, or in dry dock

Do. Long Bridge to }
top of keel }

BUILDING & AFLOAT.

Draught Moulded 26'-1 1/2"

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
ES, Spacing amidships.....	36 ✓	Rule p 31 1/2"	Bracket Floors, Frame.....	7 3/2 .34 ✓
" from 2/3 length amidships to Collision bulkhead.....	27 ✓		" " Reversed Frame.....	6 3/2 .44 ✓
" in peaks.....	24 ✓		" " Vertical Struts.....	6 3/2 .36 ✓
FRAMING.			Centre Girder, depth and thickness amidships	43 1/4 * .54 ✓
ae Amidships, Angle, E or C	13 1/2 4 .52 ✓		" " top Angles.....	3 1/2 3/2 .48 ✓
" Extends up to.....	2ND DECK. ✓		" " bottom Angles.....	4 4 .54 ✓
rsed Frame Amidships, Angle	5 5 .50 ✓		Side Girders, No. each side and thickness.....	1 @ .38 ✓
for 58-60-62-66-68			Margin Plate depth (excl. of flange) and thickness.....	44 * .57 ✓
" Extends up to.....	2ND DECK. ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem.....	6 1/2 6 1/2 .625 T.BAR. ✓
h of Framing Girder.....	13 1/2 ✓		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area.....	" ✓
es in Uppermost Continuous 'tween Decks, Angle, E or C	7 3 1/2 .33 ✓		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	.42 CONT? ✓
" Second 'tween Decks, Angle, C or C	✓		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area.....	.42 CONT? ✓
" Third.....	✓		Tank Side Brackets, height above base line at toe of Frame and thickness	77 * .48 ✓
from 1/2 len. for'd. to 15% len. from Stem.....	13 1/2 4 .52 ✓	27" SPACING. 36" SPACING.	INNER BOTTOM PLATING.	
in Peaks, Angle or C	8 3 1/2 .38 ✓		Breadth and thickness of Middle Line Strake...	84 * .50 ✓
eter and Spacing of Rivets through Frame and Shell Plating amidships.....	7/8 5 x 5 1/2 DIA? ✓		Thickness of remainder in Holds.....	.47 increased .08 in No. 1 & 2. Note
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?.....	3 x 7/4 Strips 18 apart YES. meet No 2-3
he scantlings and arrangements in the uting Area in accordance with the Rules l/or as approved?.....	AS APPROVED. ✓		BEAMS.	
he scantlings and arrangements in way the Bottom Forward in accordance with Rules and/or as approved?.....	AS APPROVED. ✓		Uppermost Continuous Deck, amidships in Walls, Angle, E or C	11 3 1/2 .43 ✓
BOTTOM.			" " in way of Keel, Angle, E or C	9 3 1/2 .38 ✓
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, E or C	12 3 1/2 .65 ✓
ine Keelson, on Floors, Angles, C or C	✓		Spacing.....	EVERY FRAME. ✓
" " Through Plate or Inter-costal Plate.....	✓		Third Deck, amidships, Angle, C or C	✓
" " Foundation Plate on Floors.....	✓		Spacing.....	✓
" " Flat Plate Keel Angles	✓		Fourth Deck, amidships, Angle, C or C	✓
de Keelsons, No. each side.....	✓		Spacing.....	✓
" " thickness of Intercoastal Plate...	✓		Poop Deck, Angle, C or C	✓
" " Angles.....	✓		Spacing.....	✓
DOUBLE BOTTOM.			Bridge Deck, Angle, C or C	✓
olid Floors, thickness and spacing.....	.46 EVERY 3RD FRAME. ✓		Spacing.....	7 3 1/2 .33 .44 ✓
" " Are Frame and Reversed Frame joggled?.....	YES. ✓		Forecastle Deck, Angle, C or C	9 3 1/2 .38 9 x 3 x .38 ✓
Bracket Floors, breadth and thickness at middle line.....	32 1/4 * .46 ✓		Spacing.....	EVERY FRAME ✓
" " breadth and thickness at margin plate.....	32 1/4 * .46 ✓			

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	CENTRE LINE BULKHEAD		Stringer Plate, breadth and thickness in way of Bridge ... <i>27' 0" OPENINGS</i>	.44 ✓	
" in 'tween Decks, Size and Spacing	WITH REINFORCED HATCH		Thickness of Plating abreast Deck openings in way of Wells46 - .38 ✓	
" " " " " "	SIDE GIRDERS & HATCH		Thickness of Plating abreast Deck openings in way of Bridge.....	✓	
" in Holds " " " "	END BEAMS		Thickness of Plating within line of openings...	.34 ✓	
" " " " " "	AS APPROVED. ✓		If Sheathed, material and thickness.....	✓	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing <i>IN HOLDS & TWN DECKS.</i>	9 3 .37 & .36" ✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of <i>IN HOLDS TWN DECKS</i>	3½ 3 .34 ✓ .30 ✓ .26 ✓		If Plated, state thickness	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	72 x .76 ✓	STRINGER & DECK PLATING INCREASED TO 180" FROM FORE END OF CASING TO AFT END OF NO 2 HATCH. ✓	If Plated, state thickness.....	✓	
" " " " in way of Bridge	.70 ✓		Poop Deck.		
" Angle in Wells	6 6 .62 ✓		Stringer Plate, breadth and thickness.....	✓	
Thickness of Plating abreast Deck openings in way of Wells <i>23' 0" OPENINGS</i>	.76 - .72 ✓		Plating, Sheathing, material and thickness ...	✓	
Thickness of Plating abreast Deck openings in way of Bridge <i>18' 0" OPENINGS</i>	.65 - .60 ✓		Bridge Deck.		
Thickness of Plating within line of openings...	.40 ✓		Stringer Plate, breadth and thickness.....	✓	
If Sheathed, material and thickness.....	2½" O.P. AFT. ✓		Plating, Sheathing, material and thickness ...	✓	
Second Deck.			Forecastle Deck. <i>SK. Carried out</i>	.75 ✓ .36 ✓	
Stringer Plate, breadth and thickness in Wells	84 x .38 ✓		Stringer Plate, breadth and thickness.....	.75 ✓ .32	
			Plating, Sheathing, material and thickness...	.50 UNDER WINDLASS.	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			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.....	52	.78	.68	.68		DOUBLE	7/8	3 3/5	QUAD.	1	4	LAPPED.	
„ Dblg. (if any)													
Bottom Plating, No. of Strakes 4.....		.68	.50	.57		DOUBLE	7/8	3 3/6	QUAD.	7/8	3 1/2	LAPPED.	
Bilge Plating, No. of Strakes 1.....		.68	.50	.60		"	"	"	WELDED.				
Side Plating, No. of Strakes 4.....		.68	.46	.46		"	"	"	TREBLE	7/8	3/8	LAPPED	
Upper Deck, Sheer- strake in Wells.....	58	.69	.50	.46		"	"	"	QUAD.	"	3 1/2	"	
Upper Deck, Sheer- strake in Bridge ...													
Strake below Sheer- strake in Wells.....	58	.68	.46	.46		DOUBLE	7/8	3 3/5	QUAD.	7/8	3 1/2	LAPPED.	
Strake below Sheer- strake in Bridge ...	THREE STRAKES OF BOTTOM PLATING P&S. FROM 1/2 LENGTH FORWARD TO RULE POSITION OF												
Poop Side Plating.....	COLLISION BULKHEAD .74" AT 36" FRAME SPACING AND .69" AT 27" FRAME SPACING. ✓												
Bridge Side Plating.....	SHELL PLATING IN PANTING AREA P&S. INCREASED TO .58" IN LIEU OF SIDE STRINGER. ✓												
Forecastle Side Plating			.40			SINGLE	7/8	3 1/2	SINGLE	7/8	3/8	LAPPED.	

WATERTIGHT BULKHEADS.

FORGINGS AND CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		8 ✓
Extending to Upper Deck (Sec. 3 c)		1 ✓
,, Deck next below		7 (6 DIVISIONAL N.T. BULKHEADS) IN TWEEEN DECKS. ✓
As per Rule		7

Plating Thickness.	STIFFENERS.			
	VERTICAL.		HORIZONTAL.	
	Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks	26 ✓	6" x 3" x 36" ✓	30" ✓	-
,, Second				
,, Third				
,, Holds	30" ✓	10" x 3 1/2" x 57 1/2" ✓	27" ✓	-
COLLISION	31" ✓	11" x 3 1/2" x 48" ✓	30" ✓	-
,, (in Hold)	37" ✓	12" x 3 1/2" x 45" ✓	24" ✓	2 S&M 1-30 x 8 S&M 75 ✓
AFTER PEAK	48" ✓	30" x 6" x 32" ✓	24" ✓	" " " ✓

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar		FLAT PLATE ✓		
STEM	CASTING	ROLLED. 11" x 2 3/4" ✓	CASTING BY THE STEEL CO OF SCOT.	
STERN FRAME	Propeller Post	CAST	AS PER STEEL CO OF	
	Rudder	STEEL	PLAN. SCOTLAND. ✓	
Speed of Vessel		10 1/2 KNOTS. ✓		
RUDDER—Type		DOUBLE PLATE STREAMLINED. ✓		
,, A x D		676 ✓		
,, Diam. of head		FORGED 12 1/4" ✓		
,, Mainpiece at top pintle		CAST SHAPED STEEL CO OF		
,, heel		STEEL. AS PER SCOTLAND. ✓		
,, how constructed		PLAN ✓		
,, double or single plate		46 ✓		
,, coupling, vertical or horizontal		VERTICAL. ✓		

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

THE STEEL CO OF SCOTLAND, COLVILLIES LTD, ✓

Has the Steel been tested as required by the Rules? YES. ✓

Lloyd's Reg Foundation

ANCHORS.

HAWSERS AND WARPS.

Lloyd's Register
Foundation

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.)

→ *eleasts provided for sparring being fitted at a later date.*
→ *wood covers fitted to Nos 2, 3, 4 hatchway on 2nd deck, but eleasts & battens provided for all hatchway. Nos 1 & 5 hatchways no covers at 2nd dk.*
all the tween deck bulkheads are completely closed & made watertight.
The scantlings are suitable for a draft 18" in excess of that corresponding to the freeboard which could be assigned if a tonnage opening were fitted & the increased draft is 26' 1 1/2" moulded.
all the requirements of the approved specification & plans have been carried out & a copy of the certificate issued is forwarded herewith.
copy of interim certificate is also forwarded.
Plans etc. forwarded as per attached list.

PARTICULARS OF ELECTRIC WELDING (if employed) *GUSSET PLATES TO TANK TOP, BULKHEAD STIFFENER BRACKETS, CE LINE BULKHEAD STIFFENERS TO TANK TOP, TUNNEL STOODS, AUXILIARY ENGINE SEATS, CORNER BARS AT BULKHEADS & TANK ENDS, CRUISER STERN, BOSS PLATING, VENTILATORS, BILGE STRAKE BUTTS AMIDSHIPS, 2ND DECK STRINGER PLATES TO SHELL, CREWS COMPANIONWAY, CORNERS OF HATCH COAMING DECK BARS, WINCH GIRDERS TO DECK.*

SPECIAL NOTATIONS :—Either as part of the vessel's class or for record in the Register Book **100 A.I. WITH FREEBOARD, CRUISER STERN, LLOYDS A & C.P. ESD, D.F. COLLISION BULKHEAD TO WEATHER DECK. 7 TO 2ND DECK. 6 DIVISIONAL H.T. BULKHEADS IN TWEEN DECKS. BOWER ANCHOR & 45 FATHOMS OF CABLE TO SUPPLY. SPARRING TO FIT IN HOLDS & TWEEN DECKS AT 1ST CONVENIENT OPPORTUNITY. WOOD COVERS TO FIT AT NOS 1 & 5 SECOND DECK HATCHWAYS.*

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

1st Bower *INCL. PINS. 44-0-14; J.H.T. 6357; 12-7-44*
2nd " *44-2-27; J.H.T. 6373; 21-7-44*
3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle *39.18* ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. *169517* Signal Letters _____ Extreme Breadth over Belting ☒ (Circ. 1611) Over-all Length *447.8* (Circ. 1703) ☒

No. and Material of Decks *2 DECKS (STEEL)*

Parts of Bottom of Vessel coated with cement or approved composition *CEMENT IN PEAKS, BILGES & DOUBLE BOTTOM TANK UNDER BOILERS. ELSEWHERE CEMENT COVERING RIVET HEADS IN BOTTOM FRAMES, GIRDERS & SHELL, REMAINDER OF*

Particulars of composition (if fitted) and of approval *TANKS CEMENT WASHED.*

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.	S.W. Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	<i>72</i>	<i>263</i>	Fore peak tank,		
Double bottom, under Engines and Boilers,	<i>42</i>	<i>196</i>	After peak tank,		<i>150</i>
Double bottom, if under Engines only,			Deep tank, aft, <i>TUNNEL SIDE P&S</i>		<i>115</i>
Double bottom, if under Boilers only,			Deep tank, forward,		<i>410</i> ✓
Double bottom, forward,	<i>199.5</i>	<i>757</i>	Other tanks, if fitted, <i>UPPER FORE PEAK.</i>		<i>52</i>
Total length (if continuous) and Capacity	<i>313.5</i> ✓	<i>1216</i> ✓	(If necessary furnish further information by sketch.)		

Order for Special Survey No. *3517*

Date *23rd Nov. 1943.*

Dates of Surveys held while building

(1943) DEC. 21. (1944) JAN. 24. FEB. 9. 11. 16. MAR. 14. 15. 17. 21. 28. 31. APRIL 6. 10. 12. 18. 21. 25. 28. MAY 2. 11. 22. 24. 30. JUNE 1. 6. 8. 13. 14. 16. 22. 27. 30. JULY 11. 14. 19. 21. 25. 26. 28. 31. AUG. 3. 8. 10. 16. 18. 21. 23. 28. SEPT. 1. 4. 6. 8. 11. 12. 13. 14. 20. 25. 27. 29. OCT. 3. 4. 6. 9. 10. 12. 13. 16. 17. 19. 23. 26. 27. 30. NOV. 9. 13. 29. DEC. 14. 18. 21.

Total No. of Visits *80*