

STEEL STEAMER ~~MOTORSHIP~~

Received at London Office... 9 DEC 1931

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 *28th November 1931* Port of *Glasgow* No. *51945*
Survey held at *Glasgow* Date First Survey *3rd Sept 1930* Last Survey *24th November 1931*

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

T.S.S. "CARTHAGE"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Opening)

*C.S.S. reduced draught*State Type of Erections *Bridge & Fide on superstructure*TONNAGE under 8742.43
Tonnage Deck...)CLASS *+100 A1* State if with freeboard *Yes*
with freeboard corresponding as condition of Class
*to a draught not exceeding 30.0" for all seasons.*Built at *Linchouse, Glasgow.*Do. of space or spaces between Tonnage Dk. and Upper Dk. *2640.46*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 518.5*Launched *18th August 1931* Yard No. *535*Total *11382.89*Breadth (greatest moulded) *B 71.0*Builders *Alexander Stephen & Sons Ltd.,*Gross Tonnage *14304.49*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 45.25*Owners *P. & O. Steam Nav. Co.*Register Tonnage *7810.46*1st Longitudinal Number (L x D) *= 23462*Managers *-*2nd Numeral L x (B + D) *= 60275*

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

REGISTERED DIMENSIONS.
FEET.Length *522.5*Framing Depth "d," at middle of length. See Sec. 3 (1d) *14.10" in E.R. 16.0" x 16.6" in holds*Residence *London*Breadth *71.4*Proportions—Depth to Length—Uppermost continuous deck to top of keel *11.27*Port of Registry *London*Depth *33.15*Do. Long Bridge to top of keel *9.51*If surveyed while building; afloat, *9* in dry dockDraught Moulded *29.6**Yes*

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>36</i>		Bracket Floors, Frame	<i>11 3 1/2 x 54</i>	<i>10 1/2 x 3 1/2 x 52</i>
" " from 3/4 length to Collision bulkhead.....	<i>27</i>		" " Reversed Frame	<i>10 3 1/2 x 54</i>	<i>10 x 3 1/2 x 52</i>
" " in peaks.....	<i>24</i>		" " Vertical Struts	<i>10 3 1/2 x 54</i>	<i>10 x 3 1/2 x 52</i>
IDE FRAMING.			Centre Girder, depth and thickness amidships	<i>50 x 67</i>	
Frame Amidships, 12 <i>12 3 1/2 x 45</i>	<i>12 3 1/2 x 45</i>		" " top Angles <i>double</i>	<i>4 4 x 63</i>	<i>3 1/2 x 3 1/2 x 63</i>
" " Extends up to <i>1" dk.</i>	<i>1" dk.</i>		" " bottom Angles <i>double</i>	<i>5 5 x 71</i>	
Reversed Frame Amidships, Angle	<i>✓</i>		Side Girders, No. each side and thickness	<i>two 48</i>	
" " Extends up to...	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness	<i>4 1/2 x 64</i>	
Depth of Framing Girder.....	<i>12"</i>		" " Vertical Angle to Tank side	<i>6 6 x 52</i>	<i>3 1/2 x 3 1/2 x 52</i>
Frames in Uppermost Continuous 'tween Decks, 10 <i>10 3 1/2 x 40</i>	<i>10 3 1/2 x 40</i>		" " Bracket abaft 1/4 len. from stem	<i>6 6 x 52</i>	<i>3 1/2 x 3 1/2 x 52</i>
" " Second 'tween Decks, 10 <i>10 3 1/2 x 40</i>	<i>10 3 1/2 x 40</i>		" " Vertical Angle to Tank side	<i>6 6 x 52</i>	<i>3 1/2 x 3 1/2 x 52</i>
" " Third " " " <i>10 3 1/2 x 40</i>	<i>10 3 1/2 x 40</i>		" " Bracket forward 1/4 len. from stem	<i>6 6 x 52</i>	<i>3 1/2 x 3 1/2 x 52</i>
Framing in Peaks, 10 <i>10 3 1/2 x 40</i>	<i>10 3 1/2 x 40</i>		" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	<i>✓</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>1" @ 5 1/2</i>		" " Gussets, spacing and scantling forward 1/4 len. from stem.....	<i>✓</i>	
State if Frame Joggled	<i>Yes</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>8'-8"</i>	
PLATING ARRANGEMENTS (Sec. 7), state system and particulars <i>deep frames & stringers</i>			INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars <i>for 6 x 6 x 52" bottom intercostals fitted & mid. thick of bottom plating carried fwd. as per rule.</i>			Breadth and thickness of Middle Line Strake ...	<i>61 x 61</i>	
INGLE BOTTOM.			Thickness of remainder in Holds	<i>54</i>	
Floors, Depth and thickness at mid-line in Holds			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>	
Height of Brackets at side above base line at toe of frame			BEAMS.		
Middle Line Keelson, on Floors, Angles, [or [.....			Uppermost Continuous Deck, amidships <i>9 x 3 1/2 x 3 1/2 x 54</i>		
" " " Through Plate or Intercostal Plate...)			" " in Wells, 12 <i>12 3 1/2 x 54</i>		
" " " Foundation Plate on Floors			" " in way of Bridge, 12 <i>12 3 1/2 x 54</i>		
" " " Flat Plate Keel Angles			Spacing	<i>every frame</i>	
Side Keelsons, No. each side			Second Deck, amidships, 12 <i>12 3 1/2 x 54</i>		
" " thickness of Intercostal Plate...			Spacing.....	<i>every frame</i>	
" " Angles			Third Deck, amidships, 12 <i>12 3 1/2 x 54</i>		
DOUBLE BOTTOM.			Spacing.....	<i>every frame</i>	
Solid Floors, thickness and spacing <i>48 @ 36</i>	<i>48 @ 36</i>		Fourth Deck, amidships, 12 <i>12 3 1/2 x 54</i>		
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>		Spacing.....	<i>every frame</i>	
Bracket Floors, breadth and thickness at (alt in Boiler Room) middle line.....	<i>3-1 1/2 x 58</i>	<i>56</i>	Poop Deck, Angle, [or [.....		
" " breadth and thickness at margin plate.....	<i>3-1 1/2 x 58</i>	<i>56</i>	Spacing.....	<i>8 3 1/2 x 50</i>	
			Spacing.....	<i>every frame</i>	
			Forecastle Deck, 12 <i>12 3 1/2 x 54</i>		
			Spacing	<i>alt. for</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.....	2			Stringer Plate, breadth and thickness in way of Bridge	69	42	
„ in 'tween Decks, Size and Spacing.....	widely spaced pillars			Thickness of Plating abreast Deck openings in way of Wells	46		
„ „ „ „ „	deck guides as per appd. plan			Thickness of Plating abreast Deck openings in way of Bridge	38		
„ in Holds „ „				Thickness of Plating within line of openings...	38 x 34		
„ „ „ „ „				If Sheathed, material and thickness	-		
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing.....	-			Stringer Plate, breadth and thickness.....	57	36	
Plating, thickness of	-			If Plated, state thickness.....	32		
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness.....	36		
Stringer Plate, breadth and thickness in Wells	65 1/2	98		If Plated, state thickness	32		
„ „ „ „ in way of Bridge	65 1/2	50		Poop Deck.			
„ Angle in Wells	6	6	86	Stringer Plate, breadth and thickness	-		
Thickness of Plating abreast Deck openings in way of Wells	60			Plating, Sheathing, material and thickness ...	-		
Thickness of Plating abreast Deck openings in way of Bridge	46			Bridge Deck.			
Thickness of Plating within line of openings...	50 x 38			Stringer Plate, breadth and thickness.....	62	52	
If Sheathed, material and thickness	5 x 2 1/2 p.p. where exposed			Plating, Sheathing, material and thickness ...	48		
Second Deck.				Forecastle Deck.			
Stringer Plate, breadth and thickness in Wells...	69	48		Stringer Plate, breadth and thickness.....	40		
				Plating, Sheathing, material and thickness ...	38		
					2 1/2 p.p.		

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	<i>60</i>	<i>96</i>	<i>86</i>	<i>86</i>		<i>double</i>	<i>1</i>	<i>4</i>	<i>Lead</i>	<i>1</i>	<i>3 1/2</i>	<i>lapped</i>
„ DBLG. (if any)	<i>-</i>											
<i>ABODE</i> BOTTOM PLATING, No. of Strakes	<i>30</i>	<i>76</i>	<i>58</i>	<i>61</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>1</i>	<i>4</i>	<i>"</i>
BILGE PLATING, No. of Strakes	<i>76</i>	<i>76</i>	<i>76</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>CHICKM</i> SIDE PLATING, No. of Strakes	<i>74</i>	<i>54</i>	<i>54</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
UPPER DECK, Sheer-strake in Wells.....	<i>75</i>	<i>91</i>	<i>54</i>	<i>54</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
UPPER DECK, Sheer-strake in Bridge	<i>74</i>					<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
STRAKE BELOW Sheer-strake in Wells.....	<i>81</i>	<i>54</i>	<i>54</i>			<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
STRAKE BELOW Sheer-strake in Bridge	<i>74</i>					<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
POOP SIDE PLATING	<i>-</i>											
BRIDGE SIDE PLATING	<i>67</i>								<i>"</i>	<i>7/8</i>	<i>3 1/2</i>	<i>"</i>
FORECASTLE SIDE PLATING	<i>47</i>					<i>single</i>	<i>3/4</i>	<i>3</i>	<i>single</i>	<i>3/4</i>	<i>2 5/8</i>	<i>"</i>

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	9
Extending to Upper Deck (Sec. 3 c)	one
„ Deck next below	eight
As per Rule	8

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	Flat plate	Keel		
STEM	Roller steel bar	11 x 3		
STERN FRAME { Propeller Post				
{ Rudder				
RUDDER—A x D	8.90			
Speed of Vessel	17 knots			
RUDDER mainpiece at head ...	forging	14 1/2	Thisted Co	
„ „ heel ...		12	Pilsen	
„ how constructed	forged			
„ double or single plate	single	1 1/6		
„ coupling, vertical or horizontal	horizontal			

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open hearth process*
Steel Co. of Scotland, Lanarkshire Steel Co., Consett Iron Co.,
David Colville & Sons Ltd.
 Has the Steel been tested as required by the Rules? *yes*

EQUIPMENT No 64823

LETTER JT

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
64739	1st Bower	Cwts. qrs. lbs. 109 0 24		Tons. cwt. qrs. lbs. 70 12 2 0	Cwts. 109	Taylor Drednought Stockless	S. Taylor & Sons	LPHT April 29 th 1931 W. A. Drysdale
64717	2nd "	109 0 0		70 12 2 0	109	do.	do.	LPHT April 29 th 1931 W. A. Drysdale
64716	3rd "	93 2 25		65 0 0 0	93	do.	do.	LPHT April 17 th 1931 W. A. Drysdale
	Collective weight	311 3 21			311			
64726	Stream	39 3 23		35 15 0 0	40 1/2	do.	do.	LPHT April 22 nd 1931 W. A. Drysdale

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.	Statutory. Breaking.	Supplied. Per Rule.	Length. Diam.					Length. Cir.	Length. Cir.	
14355	330 5/8 2 7/8	13 1/2 16 1/2	1402-1-10 1378	330 2 7/8	Stud S. Taylor & Sons Link	LPHC 28 May 1931 J. R. Parsons		SW	140 7	130.7	140 7
								TOWLINE	100 4 1/2	43.3	100 4 1/2
								HAWSERS & WARPS	100 3 1/2	25.7	100 3 1/2
									120 2 3/4	15.2	120 2 3/4
									40 100 8		40 100 8
Stream	150 6	99.1		150 6	SW						

Steering Gear, ~~Steam~~ Electric Hyd. Brown Bros. Steering Gear, Hand -Boats ten Steering Chains, Size and Test - Windlass electric Clark ChapmanCeiling in Holds, thickness and material 2 1/2" W.P. in way hatches Cargo Battens, thickness, material and spacing 6" x 2" W.P. @ 9"Cargo Hatchways.-(Upper Deck) Steel plates x angles Thickness of Hatches Steel covers except No 5. which has 3" W.P. covers.Size of No. 1 Hatchway (Forward) 13.5' x 14' No. 2 29.5' x 14' No. 3 18' x 14' No. 4 21' x 14' No. 5 18' x 14' No. 6 18' x 14'Number of Shifting Beams and/or Fore and Afters No 5 hatch only - threeFOR
ALEXANDER STEPHEN & SONS, LIMITED.

Builder's Signature

A. M. Stephen.

D

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel Yes (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo no. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

The materials and workmanship are good. The vessel has been built in accordance with the approved plans, the Secretary's letters of various dates, and in conformity with the Rules for the class contemplated.

The vessel is constructed to carry oil fuel in Nos. 4-5 and 6 double bottom tanks, and in deep oil fuel tanks at sides and fore end of boiler room (flash point above 150°F). The tanks, decks, bulkheads, tunnels and W.T. doors have been tested in accordance with the Rules, and the requirements of Sect. 20 of the Rules have been complied with where applicable. The freeboard has been verified and the freeboard markings cut in on vessel's sides.

(P.T.O.)

The amount of Entry Fee £ 12 : 0 : 0

Fees applied for, 3/12/31

Special Survey Fee.... £503 : 16 : 0

Received by me, 8/12/31

Travelling Expenses, if any £

I am of opinion the Vessel should be Classed +100 A1 with freeboard corresponding to a moulded draft of 36'-0" for all seasons. Fitted for oil fuel 11, 31 F.P. above 150°F.

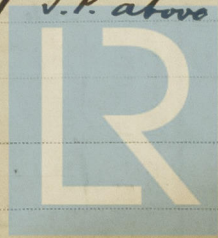
State whether the Vessel has been built under Special Survey Yes

Signature

A. W. Parsons

Certificate to be sent to Glasgow Date of issue 8/1/32

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 8-DEC 1931Character assigned +100 A1With freeboard.11.31.Lloyd's A & CP+ L.M.C. 11.31.Fitted for oil fuel 11, 31 F.P. above 150°F.

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Lloyd's Register Foundation

02492

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 vessel to T.S.S. CORFU, Messrs. A. Stephen & Sons No 534, P.L. Rpt. No. 51824.

List of approved plans forwarded herewith:—
(Midship Section as built forwarded in advance.)

Midship Section - Profile & decks - deck plan - boat deck plating - pillars & girders (5) - bulkheads (7) - rudder & stern frame - stern framing - boss framing - shell expansion - shell doors - revised plan of shell doors - strengthening in way of double bottom fwd. - hatch plans (4) - compensation for overhung beams in way of cargo hatches - oil fuel bunkers - turbine seats - tunnel & fresh water tanks - painting angle - engineers flat - engine and boiler casings (2) - amended fore-end of boat deck - stem - drain tank in engine room - bulwarks & curtain plates - bridge front - deck houses on "B" deck - framing in engine room - swimming bath - part plan of "B" deck in way of swimming pool - channel struts in bunkers - shaft tunnel & flats aft - beam knees - amended fore-end of fwd. house on "B" deck - wing brackets in eng. & boiler spaces - W.T. valve box for main circulating inlet - riveting list - ballast tank suction in double bottom fwd. - pumping plan - tiller crosshead -

5 forging certificates

A.W.S.

NOTE:- The weight of the stream anchor is less than required by the Rules, but in view of the excess weight of the bow anchor it is submitted the same may be accepted.

A.W.S.

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

1st Bower

2nd "

3rd "

Forged open hearth ingot steel

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. — ft., Bridge ^{5 on superstructure} 246 ft., Forecastle 76 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ✓

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 3 decks (Stl-weather deck - pt ws)
4 decks (Stl) in forward holds.

Official No. 162658 : Signal Letters L H J V

Is bottom of Vessel coated with cement ft. cm. if not give

particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	SW Water Capacity. Tons.	Where Fitted.	*Length. Feet.	SW Water Capacity. Tons.
Double bottom, aft, including common wing tanks	156	1298	Fore peak tank,		69.5
Double bottom, under Engines and Boilers,	123	695	After peak tank,		140.0
Double bottom, if under Engines only,	—	—	Deep tank, aft,	✓	
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	✓	
Double bottom, forward,	169	575	Other tanks, if fitted,	✓	
Total, 448'		2568	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No 6112

Date 14 - 7 - 30

Dates of Surveys held while building

1930 Sep: 3, 5, 15, 18, 22, 30 Oct: 17, 24, 28, 29, 31 Nov: 6, 14, 18, 19, 21, 26 Dec: 5, 9, 10, 11, 12, 18, 22, 30
1931 Jan: 8, 9, 12, 13, 14, 15, 20, 22, 27, 30 Feb: 6, 12, 13, 23, 25, 27 Mar: 2, 3, 9, 12, 20, 23, 24, 25, 27 Apr: 1, 8
9, 15, 17, 20, 24, 27, 28, 30 May: 1, 4, 5, 6, 7, 11, 12, 13, 14, 18, 21, 22, 25, 26, 27, 29 June: 1, 2, 4, 5, 8, 10, 12, 15
16, 17, 18, 19, 23, 24, 25, 26 July: 1, 6, 7, 8, 9, 10, 13, 14, 15 Aug: 3, 5, 7, 11, 14, 18, 21, 25, 26, 28 Sep: 1, 3, 8, 11, 14
23 Oct: 1, 5, 7, 9, 12, 15, 22, 23 Nov: 3, 9, 10, 11, 12, 16, 17, 19, 20, 24

Total No. of Visits 37