

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

Survey held at DUNDEE Date First Survey 24<sup>th</sup> December 1942 Last Survey 31<sup>st</sup> December 1943

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

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Complete Superstructure without Tonnage Openings* State Type of Erections *Yone castle*

TONNAGE under } 6548.48  
Tonnage Deck ... }

CLASS  100 A.1.

State if with freeboard } **YES**  
as condition of Class } **FEET**

Built at.....Dundee

Launched 11<sup>th</sup> November Yard No. 408.

Builders Caledon S. B & E Co. Ltd.

Owners Ministry of War Transport.

Managers Frank C. Strick & Co. Ltd  
(Where necessary to be entered in Reg. Book)

Residence London E.C.3

Port of Registry.....*Dundee*

*If surveyed while building, afloat, or in dry dock*

Building & afloat

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

Total ..... 6548.48

Gross Tonnage ..... 7058.00

Register Tonnage ..... 4840.49

### REGISTERED DIMENSIONS.

FEET

length ..... 431.30

breadth 56.35

Depth 35-20

Length from fore part of stem to after part of stern } L 425.0  
post on summer L.W.L. See Sec. 3 (1a) }

**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 35.45

**1st Longitudinal Number (L x D).....= 15193.45**

2nd Numeral  $L \times (B + D)$  ..... = 38993.45

Framing Depth "d," at middle of length. See } 23.3  
Sec. 3 (1d)..... }

**Proportions**—Depth to Length—Uppermost continuous deck to top of keel ..... } 11:24

Do. Long Bridge to }  
top of keel }

Draught Moulded ..... 26-8

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.
<b>FRAMES, Spacing amidships</b> .....	31 ✓		<b>Bracket Floors, Frame</b> .....	✓	
" " from $\frac{3}{4}$ length amidships to Collision bulkhead.....	24 ✓		" " Reversed Frame.....		
" " in peaks .....	24 ✓		" " Vertical Struts .....		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	43 $\frac{1}{2}$ 54 ✓	
Frame Amidships, Angle, <b>E or C</b> .....	12 3 $\frac{1}{2}$ 9/16 ✓		" " top Angles .....	3 $\frac{1}{2}$ 3 $\frac{1}{2}$ 48 ✓	
" " Extends up to.....	2 <sup>ND</sup> UPPER DECK ALTERNATELY ✓		" " bottom Angles.....	4 4 54 ✓	
Reversed Frame Amidships, Angle .....	✓		<b>Side Girders, No. each side and thickness</b>	TOP ANGLE 6X3X42 B.A. CONTIN ✓ ONE BOTTOM ANGLE 6X3 $\frac{1}{2}$ X42 CONTS. WITHOUT INTERCOSTAL PLATE	
" " Extends up to .....	✓		<b>Margin Plate</b> depth (excl. of flange) and thickness .....	36 54 ✓	
Depth of Framing Girder.....	12 ✓		" " Vertical Angle to Tank side		
Frames in Uppermost Continuous 'tween Decks, Angle, <b>E or C</b> .....	8 3 $\frac{1}{2}$ 35 every in 24 holds ✓ 12 3 $\frac{1}{2}$ 9/16 on alt frames ✓		" " Bracket abaft $\frac{1}{4}$ len. from stem .....	6 6 44 ✓	
" " Second 'tween Decks, Angle, <b>C or C</b> .....	✓		" " Vertical Angle to Tank side		
" " Third .....	✓		" " Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	6 6 44 ✓	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem .....	12 3 $\frac{1}{2}$ 9/16 B.A. ✓		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	continuous ✓	
" " in Peaks, Angle or <b>C</b> .....	8 3 $\frac{1}{2}$ 35 ✓		" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area .....	Gusset Plate ✓	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	$\frac{1}{8}$ dia. multiple as approved ✓		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	94 $\frac{1}{8}$ X 44 ✓	
State if Frame Joggled.....	yes ✓		<b>INNER BOTTOM PLATING.</b>		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved ? .....	yes ✓		Breadth and thickness of Middle Line Strake...	41 $\frac{3}{4}$ 50 ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved ? .....	yes ✓		Thickness of remainder in Holds .....	44 52 under hatches ✓	
<b>SINGLE BOTTOM.</b>			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 ✓	
Floors, Depth and thickness at mid-line in Holds.....	✓		<b>BEAMS.</b>		
Height of Brackets at side above base line at toe of frame.....	✓		Uppermost Continuous Deck, amidships in Wells, Angle, <b>E or C</b> .....	8 3 $\frac{1}{2}$ 42 ✓	
Middle Line Keelson, on Floors, Angles, <b>C or C</b> .....	✓		" " in way of Bridge, Angle, <b>E or C</b> .....		
" " Through Plate or Intercostal Plate .....			Spacing .....	31 ✓	
" " Foundation Plate on Floors .....			<b>Second Deck, amidships, Angle, <b>E or C</b> .....</b>	9 3 36 ✓	
" " Flat Plate Keel Angles .....			Spacing .....	31 ✓	
Side Keelsons, No. each side.....	✓		<b>Third Deck, amidships, Angle, <b>C or C</b> .....</b>	✓	
" " thickness of Intercostal Plate...			Spacing.....		
" " Angles .....			<b>Fourth Deck, amidships, Angle, <b>C or C</b> .....</b>	✓	
<b>DOUBLE BOTTOM.</b>			Spacing.....		
Solid Floors, thickness and spacing .....	42 31 ✓		<b>Poop Deck, Angle, <b>C or C</b> .....</b>	✓	
" " Are Frame and Reversed Frame joggled ? .....	YES ✓		Spacing.....		
Bracket Floors, breadth and thickness at middle line .....	✓		<b>Bridge Deck, Angle, <b>C or C</b> .....</b>	✓	
" " breadth and thickness at margin plate.....			Spacing.....	9 3 42 ✓ 6 3 48 ✓ 24 24 ✓	
			<b>Forecastle Deck, Angle, <b>E or C</b> .....</b>	✓	
			Spacing.....		

(MADE IN ENGLAND.)

215610-982410-972410



## 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.
<b>PILLARS, No. of Rows</b> .....	✓		<del>Stringer Plate, breadth and thickness in way</del>		
„ in 'tween Decks, Size and Spacing .....			<del>of Bridge</del> .....		
„ „ „ „ „			Thickness of Plating abreast Deck openings	36	✓
„ in Holds „ „ „			<del>in way of Wells</del> .....		
„ „ „ „ „			Thickness of Plating abreast Deck openings		
<b>Centre Line Bulkhead.</b>			<del>in way of Bridge</del> .....		
Stiffeners and Spacing .....	as per approved plan		Thickness of Plating within line of openings...	34	✓
Plating, thickness of .....	30 hold 26 'tween Dks.		If Sheathed, material and thickness.....	✓	
<b>STRINGERS AND DECKS.</b>			<b>Third Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	AMIDSHIPS 65 5/8 .40 ✓		If Plated, state thickness .....		
„ „ „ „ in way of Bridge			<b>Fourth Deck.</b>		
„ Angle in Wells .....	6 6 60 ✓		Stringer Plate, breadth and thickness.....	✓	
Thickness of Plating abreast Deck openings			If Plated, state thickness.....		
<del>in way of Wells</del> .....	.40 & .65 ✓		<b>Poop Deck.</b>		
Thickness of Plating abreast Deck openings			Stringer Plate, breadth and thickness.....	✓	
<del>in way of Bridge</del> .....			Plating, Sheathing, material and thickness ...		
Thickness of Plating within line of openings...	.40 ✓		<b>Bridge Deck.</b>		
If Sheathed, material and thickness.....	✓		Stringer Plate, breadth and thickness.....	✓	
<b>Second Deck.</b>			Plating, Sheathing, material and thickness ...		
Stringer Plate, breadth and thickness in Wells	22 3/4 .38 ✓		<b>Forecastle Deck.</b>		
			Stringer Plate, breadth and thickness.....	35 36	
			Plating, Sheathing, material and thickness...	32	✓

## 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.....	54	80	40	45		Double	7/8	3 1/4	ELECT. WELDING 2 TREBLE ALTY	1	4	E.W. & ALTERNATELY DOUBLE STRAPS	
„ Dblg. (if any)													
Bottom Plating, No. of Strakes ..... 4...	A 44 1/2 B 44 1/2 C 44 1/2 D 46 1/2	65 60 65 65	40 40 40 54	62 62 62 62		Double	7/8	3 1/4	Quadruple	7/8	3 1/2	A.B.C. Lapped inside straps	
Bilge Plating, No. of Strakes ..... 1...	E 44 1/2 F 83 1/4	64 60	57 45	62 45		Double	7/8	3 1/4	Quadruple	7/8	3 1/2	E inside strap	
Side Plating, No. of Strakes ..... 3...	G 83 1/4 H 83 1/4	60 65	45 45	45 45		Double	7/8	3 1/4	Treble	7/8	3 5/32	lapped	
Upper Deck, Sheer- strake in Wells.....	I 44 1/2	43	46	46		Double	7/8	3 1/4	Quadruple	1	4	lapped	
<del>Upper Deck, Sheer- strake in Bridge ...</del>													
Strake below Sheer- strake in Wells.....	J 83 1/4	65	46	46		Double	7/8	3 1/4	Treble	7/8	3 5/32	lapped	
<del>Strake below Sheer- strake in Bridge ...</del>													
Poop Side Plating.....													
Bridge Side Plating.....													
Forecastle Side Plating		40				Single	3/4	3	Single	3/4	3	lapped	

## WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c) *Collision Bulk to W.D.K.* } *6 Divisional W.T.*  
" Deck next below *6* } *Bld. in 'tween*  
" *Decks*

As per Rule *Seven*

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted
KEEL, Bar				
STEM				
STERN FRAME	<div> <div>Propeller Post</div> <div>Rudder</div> </div>			
Speed of Vessel	10 1/2			
RUDDER—Type				
" A x D.	548			
" Diam. of head	STOCK			
" Mainpiece at top pintle				
" "	heel			
" how constructed				
" double or single plate				
" coupling, vertical or				
" horizontal				

		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D, Upper 'tween decks	.26	5 x 3 x .42	31		
55	Second					
55	Third					
55	Holds	.45 timber 39-26	12 x 3 1/2 x .45 B A 10 x 3 1/2 x .44 B A	31		WT. FLAT
	COLLISION		53-29	2 1/2 x 3 x .34 B A	24	2 SEMI BOX BEAMS
	(in Hold)			19 x 3 1/2 x .38 B A		
	AFTER PEAK		48-30	2 1/2 APPROVED	24	SEMI BOX BEAMS

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Colville & Co. Ltd.*  
*The Lanarkshire Steel Co. Ltd. The Steel Coy of Scotland Ltd., Dorman, Long & Co. Ltd.*  
*open Hearth Process*  
Has the Steel been tested as required by the Rules? *YES* ✓



EQUIPMENT No. 40052-45 ✓												LETTER at ✓		ANCHORS.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53. Cwts.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.				
43594	1st Bower	68	0	✓	STOCKLESS			52	15	2	14	✓	Byers Improved Stockless	—	L.P.H.-S, 28-4-43, R.T. VOGAN.
43595	2nd "	68	0	✓	"			52	15	2	14	✓	194 1/2 ✓	—	L.P.H.-S, 28-4-43, R.T. VOGAN.
	3rd "														
	Collective weight														
24606	Stream	19	3	✓	5	1	✓	20	12	3	✓	19 EX STOCK	Rodgers Type	—	L.P.H.-L.W, 20-5-43, A.C. WREN

## 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.	
	Fathoms.	Ins.	Stations.	Break- ing.	Supplied.	Per Rule.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.		Fathoms.	Ins.
1432	240	5/16	2	100-8	144-1	544	0	0		STUD LINK	S. TAYLOR & SONS L.P.H.-N., 13-5-43, J.A. REID		TOWLINE	120	4 3/4	64-6	120	4 3/4
										STUD LINK			HAWSERS & WARPS	2290	3	18-6	2290	2 3/4
														2290	2 1/2	13-2	2290	2 1/2
														2275	3 1/4	21-7		
Stream Steel Wire	90	5		52-8	without breaking				90	5	6X12	m. Black	Coatbridge, R. Owen					

Steering Gear, Type (Power or hand) Steam by Hattie of Greenock ✓ Alternative Means of Steering Block & Tackle worked from winch ✓

Steering Chains (Size and Test) ✓ Windlass Steam by Clarke Chapman Boats 3 lifeboats & 1 lifeboat with motor ✓

Ceiling in Holds, thickness and material NONE Cargo Battens, thickness, material and spacing NOT FITTED

Cargo Hatchways. (Upper Deck) Steel plates & angles ✓ Thickness of Hatches Nº 4 HATCH 3, remainder 2 1/2 ✓

Size of Hatchways No. 1 (Fwd.) 31'6" x 20'0" No. 2 23'0" x 20'0" No. 3 31'0" x 20'0" No. 4 12'11" x 20'0" No. 5 31'0" x 20'0" No. 6 31'0" x 20'0" ✓

Number of Shifting Beams and/or Fore and Afters } 12 Nº 4 hatch 52 Nº 5, 1, 2, 3, 5 & 6 ✓

FOR AND ON BEHALF OF  
THE CALEDON SHIPBUILDING & ENGINEERING CO. LTD.

Builder's Signature Henry Main Managing Director

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 no ✓

(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 (where required to be inserted in the Notation).

This ship has been built in conformity with the Society's Rules & Regulations and the Secretary's letters. The scantlings and arrangements are, in accordance with, or equivalent to, those shown on the approved plans. ✓

The workmanship & materials are good. ✓

The double bottom, Deep & peak tanks, W.T. Bulkheads, shaft tunnel, weather decks, W.T. Doors, Hand Pumps, Bilge Suctions, Windlass & steering gear have been tested in accordance with the requirements of the rules with satisfactory results. ✓

The freeboard markings have been verified & cut in on the vessels side. ✓

The requirements of the ministry of war Transport specification have been satisfactorily carried out. ✓

The amount of Entry Fee..... £10 : - : - Fees applied for, 3/5 Dec 1943 (Special notations, where part of class, to be stated.)

Special Survey Fee..... £346 : 9 : Received by me, 19

plus 25% for Specification Requirements 94-213

Travelling Expenses, if any..... £18 : - : -

FREEBOARD

I am of opinion the Vessel should be Classed 100 A-1 ✓ with freeboard

State whether the Vessel has been built under Special Survey yes

Signature Henry W. Queen ✓  
Surveyor to Lloyd's Register of Shipping.

Shell Certificate to be sent to Dundee

Date of issue 5/12/44

Committee's Minute ✓

Character assigned 100 A-1 12.43

with freeboard

1- dmc 12.43 70

Clayton & Co.

Note:- Eqpt. Co. btus. been covered to 2nd deck



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Lloyd's Register Foundation

0952/2



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.)

This vessel is a sister to the 'EMPIRE RHODES' Dundee Report no 9248, 'EMPIRE HEYWOOD' Dundee Report no 9299, 'EMPIRE PRINCE' Dundee Report no 9309, 'EMPIRE ARCHER' Dundee Report no 9321. Partially fabricated B type standard vessel.

There are no hatch covers on 2nd deck at Nos 1 & 6 hatches.

Cargo battens not fitted but cleats for same placed on board. It is stated cargo battens will be fitted at first opportunity.

LIST OF APPROVED PLANS

midship section	aft peak Bulkhead
Profile & Deck plan	Stem Construction
Y to Fore End Framing	Panting Frame Brackets
Deep tank abreast Tunnel	Multiple Punching Diagram
Deep tank for Carriage of water Ballast only	Emergency Steering Gear
Particulars of Electric welding	Sternframe & Rudder
Pumping arrangement	Strengthening of Bottom Forward
Sliding hatch webs (upper deck)	Sea Inlet Tube
Sliding hatch webs (2nd deck)	
Arrgt at aft end No 6 hatch	
General arrangement	Steel Invoices & Yorging Reports herewith.
Boat Deck & Side Houses	
midship Deckhouses	
Hatches & Deck girders	
Centre Line Bulkheads	
Hatch End Beams	
aft End framing	
Fore End framing	
Fore Peak Bulkhead	

PARTICULARS OF ELECTRIC WELDING (if employed) Alternate butts of keel plate, Sternframe & part of Rudder. W.T. bulkheads to tank top, Centre line Bld to tank top & Decks, Tunnel stiffeners & tunnel plating to tank top. Gusset plate to tank top.

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

Cruiser Stern, Wireless Direction Finding apparatus, with freeboard, Lloyds A.S.C.P., one bow anchor to supply at end of hostilities, Collision Bld to No 5 & 6 divisional W.T. Blds in tween decks. Echo sounding.

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

1st Bower 44-0-114, J.H. JOHNSON, 5468, 5-3-43.  
2nd „ 44-3-21, A.E. GALLIFORD, 4455, 19-1-43.  
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. 166216 Signal Letters Extreme Breadth over Belting 446.3 Over-all Length 446.3  
(Circ. 1611) (Circ. 1703)

No. and Material of Decks Two Decks (Stl)

Parts of Bottom of Vessel coated with cement or approved composition. Double bottom tanks, midship & after ballast tanks coated with cement & rivet heads covered with cement on bottom. Portland cement in peaks. Two forward ballast tanks painted.

Particulars of composition (if fitted) and of approval. No 4A double bottom tank coated with 'Camrex'. Bottom in tank under boiler room cemented. See letter 24.1.44

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.
Double bottom, aft, FRS 34-58	Feet. 62'-0"	Tons. 231	Fore peak tank,	Feet. 22'-2"	Tons. 150
Double bottom, under Engines and Boilers,			After peak tank,	20'-0"	106
Double bottom, if under Engines only, FRS 58-69	28'-5"	132	Deep tank, aft, FRS 14-34	43'-11"	290
Double bottom, if under Boilers only, FRS 69-76	18'-1"	84	Deep tank, forward, FRS 130-136	14'-0" (Prs)	250
Double bottom, forward, FRS 46-161	209'-9"	826	Other tanks, if fitted, ENG RM. FRS 58-69 (5) 58-66P	23'-3 1/2 20'-8	198 & 175
Total length (if continuous) and Capacity	318'-3"	1273	(If necessary furnish further information by sketch.)		

Order for Special Survey No. 1021

Date 25<sup>th</sup> Sept. 1942

Dates of Surveys held while building

1942 Dec 24, 30, 1943 Jan 8, 15, 25, Feb 9, 12, 18, 25, March 3, 9, 10, 12, 16, 17, 18, 19, 25, Apr 5, 6, 8, 13, 14, 15, 19, 20, 21, 29, May 4, 6, 7, 11, 18, 24, 26, June 4, 7, 8, 9, 16, 21, July 6, 7, 29, Aug 2, 6, 11, 13, 16, 20, 26, Sept 1, 2, 3, 6, 7, 10, 13, 16, 20, 23, 27, Oct 12, 13, 15, 18, 19, 20, 21, 22, 25, 26, Nov 8, 9, 10, 11, 16, 18, 23, 25, 29, 30, Dec 3, 7, 8, 9, 10, 12, 14, 16, 17, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31

Total No. of Visits 101