

## STEEL STEAMER OR MOTORSHIP.

Received at London Office **3 JUN 1942**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 **28<sup>th</sup> May 1942** Port of **DUNDEE** No. **9309**Survey held at **DUNDEE** Date First Survey **29<sup>th</sup> May 1941** Last Survey **21<sup>st</sup> May 1942**On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **Steel Single Screw Steamer 'EMPIRE PRINCE'**State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **Complete Superstructure without Tonnage Opening** State Type of Erections **Forecastle**TONNAGE under Tonnage Deck ... **6540.89** CLASS **100 A.I.** State if with freeboard as condition of Class **YES** Built at **Dundee**No. of space or spaces between Tonnage Dk. and Upper Dk. **1** Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) **425.0** Launched **31<sup>st</sup> March 1942** Yard No. **394**Total **6540.89** Breadth (greatest moulded) **56.0** Builders **Caledon S.B. & E. Co. Ltd.**Gross Tonnage **4030.30** Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **35.45** Owners **Messrs Gibbs & Co.**Register Tonnage **4924.38** 1st Longitudinal Number (L x D) **15193.45** Managers **Messrs Gibbs & Co.**REGISTERED DIMENSIONS. FEET 2nd Numeral L x (B + D) **38993.45** (Where necessary to be entered in Reg. Book)Length **431.30** Framing Depth "d," at middle of length. See Sec. 3 (1d) **23.3** Residence **Meathyr House, James St. Cardiff**Breadth **56.35** Proportions—Depth to Length—Uppermost continuous deck to top of keel **11.24** Port of Registry **Dundee**Depth **35.20** Draught Moulded **26.478** If surveyed while building, afloat, or in dry dock **Building & afloat**

## 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.....	24		"    "    Reversed Frame.....		
"    "    in peaks .....	24		"    "    Vertical Struts .....		
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 $\frac{1}{4}$ 54	
Frame Amidships, Angle, <b>E or F</b> .....	12 3 $\frac{1}{2}$ 9/16		"    "    top Angles .....	3 $\frac{1}{2}$ 3 $\frac{1}{2}$ 48	
"    "    Extends up to.....	2nd Deck & alternately to upper		"    "    bottom Angles.....	4 4 54	
Reversed Frame Amidships, Angle .....			"    "    TOP ANGLE 6x3x42 B.A. CONTINT.		
"    "    Extends up to .....			Side Girders, No. each side and thickness.....	ONE, BOTTOM ANGLE 6x3x42 B.A. CONTINT.	
Depth of Framing Girder.....	12		Margin Plate depth (excl. of flange) and thickness .....	36 54	
Frames in Uppermost Continuous 'tween Decks, Angle, <b>E or F</b> .....	8 3 $\frac{1}{2}$ 35 every in N <sup>o</sup> 1 Hold		"    "    Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem .....	6 6 44	
"    "    Second 'tween Decks, Angle, <b>E or F</b> .....			"    "    Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area .....	6 6 44	
"    "    Third .....			"    "    Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	continuous	
"    "    from $\frac{1}{2}$ len. for'd. to 15% len. from Stem .....	12 3 $\frac{1}{2}$ 9/16 on all frames		"    "    Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area .....	gusset plate	
"    "    in Peaks, Angle <b>E or F</b> .....	8 3 $\frac{1}{2}$ 35		Tank Side Brackets, height above base line at toe of Frame and thickness	95/8 44	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	$\frac{1}{8}$ dia. multiple as approved		INNER BOTTOM PLATING.		
State if Frame Joggled.....	YES		Breadth and thickness of Middle Line Strake...	41 $\frac{3}{4}$ 50	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	YES		Thickness of remainder in Holds .....	44 52 under latches	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? .....	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? .....		
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds.....			Uppermost Continuous Deck, amidships in Wells, Angle, <b>E or F</b> .....	8 3 $\frac{1}{2}$ 42	
Height of Brackets at side above base line at toe of frame.....			"    "    in way of Bridge, Angle, <b>E or F</b> .....		
Middle Line Keelson, on Floors, Angles, <b>E or F</b> .....			"    "    Spacing .....	31	
"    "    Through Plate or Inter-costal Plate .....			Second Deck, amidships, Angle, <b>E or F</b> .....	9 3 36	
"    "    Foundation Plate on Floors .....			"    "    Spacing .....	31	
"    "    Flat Plate Keel Angles .....			Third Deck, amidships, Angle, <b>E or F</b> .....		
Side Keelsons, No. each side.....			"    "    Spacing.....		
"    "    thickness of Inter-costal Plate...			Fourth Deck, amidships, Angle, <b>E or F</b> .....		
"    "    Angles .....			"    "    Spacing.....		
DOUBLE BOTTOM.			Poop Deck, Angle, <b>E or F</b> .....		
Solid Floors, thickness and spacing .....	42 31		"    "    Spacing.....		
"    "    Are Frame and Reversed Frame joggled? .....	YES		Bridge Deck, Angle, <b>E or F</b> .....		
Bracket Floors, breadth and thickness at middle line .....			"    "    Spacing.....	9 3 42	
"    "    breadth and thickness at margin plate.....			Forecastle Deck, Angle, <b>E or F</b> .....	6 3 44	
			"    "    Spacing.....	24 24	



## 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 .....			✓			Stringer Plate, breadth and thickness in way of Bridge .....					
,, in 'tween Decks, Size and Spacing .....						Thickness of Plating abreast Deck openings in way of Wells .....			.36	✓	
,, ,, ,, ,, ,, .....						Thickness of Plating abreast Deck openings in way of Bridge .....					
,, in Holds ,, ,, ,, .....						Thickness of Plating within line of openings...			.34	✓	
,, ,, ,, ,, ,, .....						If Sheathed, material and thickness.....			✓		
Centre Line Bulkhead.		as per approved plan				Third Deck.					
Stiffeners and Spacing .....						Stringer Plate, breadth and thickness.....			✓		
Plating, thickness of .....		.30 hold .26 'tween Decks				If Plated, state thickness .....					
STRINGERS AND DECKS.						Fourth Deck.					
Uppermost Continuous Deck.						Stringer Plate, breadth and thickness.....			✓		
Stringer Plate, breadth and thickness <del>in Wells</del> <sup>AMIDSHIPS</sup> 65 5/8 .65 ✓						If Plated, state thickness.....					
,, ,, ,, ,, in way of Bridge						Poop Deck.					
,, Angle in Wells .....		6	6	.60	✓	Stringer Plate, breadth and thickness.....			✓		
Thickness of Plating abreast Deck openings in way of Wells .....		.60	.55		✓	Plating, Sheathing, material and thickness ...					
Thickness of Plating abreast Deck openings in way of Bridge .....						Bridge Deck.					
Thickness of Plating within line of openings...		.40			✓	Stringer Plate, breadth and thickness.....			✓		
If Sheathed, material and thickness.....			✓			Plating, Sheathing, material and thickness ...					
Second Deck.						Forecastle Deck.					
Stringer Plate, breadth and thickness in Wells 82 3/4 .38 ✓						Stringer Plate, breadth and thickness.....		96	.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.		State if joggled? NO ✓	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.	ELECT. WELDING & TREBLE ALT.	Inches.	Inches.	E.W. & ALTERNATELY DOUBLE STRAPS	
Flat Plate Keel.....	54	80	40	45		Double	7/8	3 1/4		1	4		
„ Dblg. (if any).													
Bottom Plating, No. of	44 1/2	65	40	62		Double	7/8	3 1/4	Quadruple	7/8	3 1/2	A.B.C. lapped	
Strakes	44 1/2	65	40	62								D inside straps	
Bilge Plating, No. of	44 1/2	64	54	62		Double	7/8	3 1/4	Quadruple	7/8	3 1/2	E inside straps	
Strakes	83 1/4	60	45	45									
Side Plating, No. of	83 1/4	60	45	45		Double	7/8	3 1/4	Double	7/8	3 5/32	lapped	
Strakes	83 1/4	65	45	45									
Upper Deck, Sheer- strake in Wells.....	44 1/2	43	46	46		Double	7/8	3 1/4	Quadruple	1	4	lapped	
Upper Deck, Sheer- strake in Bridge.....													
Strake below Sheer- strake in Wells.....	83 1/4	65	46	46		Double	7/8	3 1/4	Double	7/8	3 5/32	lapped	
Strake below Sheer- strake in Bridge.....													
Peep 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 bld to W.D.K.* } *6 Divisional W.T.*  
" Deck next below *6* } *Bldns in Green*  
" *Decks*

As per Rule *Seven* *Opening in 'hoon' at BHs, except from*  
*8 1/2' are closed in accordance with MS/835*

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar .....				Flat plate Keel 10x2 1/2 Rolled bar lower portion & 503-56 Rounded plate upper portion
STEM .....				
STERN FRAME {	Propeller Post			Fabricated sternframe Castings by E. Jephling of Sunderland
FRAME {	Rudder			
Speed of Vessel .....	10 1/2			
RUDDER—Type .....				Fabricated Steamline
" A x D .....	578			
" Diam. of head	STOCK	Forging 11 1/2 inches	T. S. FORSTER	
" Mainpiece at top pintle				Cast steel top & bottom Arms.
" " head				by E. Jephling & Sons Sunderland
" how constructed .....				Steel plate & angles by Calder & Co.
" double or single plate		50		
" coupling, vertical or				
" horizontal				with 8-3/4 inch fitted bolts.

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Colvilles Ltd.*  
*Messrs Dorman Long & Co. Ltd, Appleby-Frodingham Steel Co. Ltd, South Durham Steel & Iron Co. Ltd,*  
*Skinningrove Iron Co. Ltd, The Steel Coy of Scotland Ltd., open hearth process*  
 Has the Steel been tested as required by the Rules? *Yes*



EQUIPMENT No. 40052-45												LETTER af		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.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
1154	1st Bower ...	68	1	0	STOCKLESS			52	15	2	14		HINGLEY CHALLENGE TYPE	N. HINGLEY & SONS	L.P.H.N. 30-9-41, J.A. RELF
1010	2nd „ ...	68	0	21	"			52	15	2	14	19 1/2	" " "	"	" 12-8-41, R.J. VOGAN
	3rd „ ...														
	Collective weight														
1214	Stream ....	19	1	21	4	3	21	20	6	1	0	19 EX STOCK	Ordinary forged N.I.	N. HINGLEY & SONS	L.P.H.N. 30-10-41, J.A. RELF

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.	Statutory.	Breaking.	Supplied.	Cwts.	qrs.	lbs.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
116659	120	2 5/16	96	25	134 7/8	320	1	14	240	2 5/16	STD LINK	N. HINGLEY & SONS	L.P.H.N. 21-11-41, J.A. RELF	TOWLINE	120	4 3/4	64.6	120	4 3/4
116660	105	2 5/16	96	25	134 7/8	280	1	10			"	"	L.P.H.N. 21-11-41, J.A. RELF	HAWSERS & WARPS	2290	2 3/4	15.2	2290	2 3/4
															2290	2 5/8	13.2	2290	2 5/8
Stream Chain or Steel Wire	90	5	52.8	without Breaking					90	5	F.S.W. 6x12 in. Black		Coatbridge 15-10-41						
													ROSEN						

Steering Gear, Type (Power <del>or</del> hand)	Steam by Hastie of Greenock	Alternative Means of Steering	Block & Tackle worked from Windlass	
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 2½	
Size of Hatchways No. 1 (Fwd.)	31'6" x 20'0"	No. 2	31'0" x 20'0"	
	No. 3	31'0" x 20'0"	No. 4	21'11" x 20'0"
	No. 5	31'0" x 20'0"	No. 6	31'0" x 20'0"
Number of Shifting Beams and/or <del>Fore and Afters</del>	1 @ Nº 4 hatch, 5 @ Nº 5, 2, 3, 5 & 6	FOR AND ON BEHALF OF THE CALEDON SHIPBUILDING & ENGINEERING CO., LTD.		
		Builder's Signature	J <sup>m</sup> H Dorster	
			DIRECTOR.	

<b>GENERAL DECLARATION.</b> 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 vessel has been built in accordance with the approved plans. The Secretary's letters of various dates & in general conformity with the Society's rules for the class contemplated. The workmanship & materials are good.		
The double bottom & peak tanks, w. y. bulkheads, shaft tunnel, weather decks w. y. doors, Hand pumps, bilge suction, 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 vessel's side.		
The requirements of the ministry of war Transport specification have been satisfactorily carried out		

The amount of Entry Fee.....	£ 10 : - : -	Fees applied for, 28th May 1942	(Special notations, where part of class, to be stated.)
Special Survey Fee.....	£ 375 : 15 : -		
plus 25% for specification Requirements	93 : 18 : 9	Received by me,	I am of opinion the Vessel should be Classed
Travelling Expenses, if any	£ 18 : 0 : 0		
	FREEBOARD	19	✱ 100 A.1. with freeboard
State whether the Vessel has been built under Special Survey	YES	Signature	H. M. Queen
Certificate to be sent to	Dundee	Date of issue	7/7/42
Committee's Minute	GLASGOW		12 JUN 1942
Character assigned	-1- 100 A1		5.42
	with freeboard		
	Lloyds Assoc		-1- 100 5.42 2.D.
Note: Equip. G.O. Bens. keel covers.			



**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 Rpt no 9248 & the 'EMPIRE HEYWOOD' Dundee Rpt no 9299  
Partially fabricated 'B' type standard vessel  
There are no hatch covers on 2nd deck except at nos 324 hatches clear of grain feeders  
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
- Profile & Decks
- Multiple Punching Diagram
- Rudder Stemframe
- Strengthening of Bottom Forward.
- Amended 2nd Deck in way of Boiler Casing
- Aft End Framing
- Aft Peak Bulkhead
- Fore End Framing
- Fore Peak Bulkhead
- Centre Line Bulkhead
- Frame attachments in way of Panking Area
- Hatches & Deck Girders
- Hatch End Beams
- Pumping Arrangement
- 2nd Deck in way of Bunkers & Web Frames.
- Stem Construction
- Shell opening on main Circular Inlet
- Emergency Steering Gear
- Electric welding
- Modification to upper & 2nd Deck Hatches
- Modification to Hatch side girders & upper Deck
- Details of Shding Hatch Web Ends
- Plan of Escape ladders
- Steel Invoices & Forging Reports herewith

**PARTICULARS OF ELECTRIC WELDING** (if employed) alternate butts of keel plate, stemframe & part of Rudder, W. Y. bhd stiffener brackets to tank top, Co. line bhd to tank top, Fore & aft 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 & C.P., 45 fms. of cable & 1 bower anchor to supply at end of hostilities. Collision bhd. to W. D.K. 6 divisional W.T. bhd. in tween dks. Echo sounding.

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

1st Bower 42-1-14, J. DALE, 3451, 15-4-41  
2nd „ 42-2-24, J. DALE, 3423, 4-4-41.  
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. 166214 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 446.3 (Circ. 1703)

No. and Material of Decks Two Decks (std.)

Parts of Bottom of Vessel coated with cement or approved composition. Double bottom tanks coated with cement & fillets on bottom. Portland cement in D.B. tank in boiler Rm & in peaks.

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft, FRS. 15-58	111-1"	304	Fore peak tank,	22-2"	112
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,		
Double bottom, if under Boilers only, X DRY TANK 69-76	18-1"		Deep tank, forward,		
Double bottom, forward, FRS. 76-161	209-9"	826	Other tanks, if fitted,		
Total length (if continuous) and Capacity	367-4"	1265	(If necessary furnish further information by sketch.)		

X The dry tank is fitted as a w.t. compartment having air & sounding pipes & w.t. manhole covers. Suction connected to bilge line.

Order for Special Survey No/012  
Date 19-2-41  
Dates of Surveys held while building  
1941 May 29, June 13, July 24, 25, Aug 5, 7, 19, 20, 22, 25, 28, Sept 2, 3, 5, 11, 15, 14, 22, 26, Oct. 3, 9, 16, 20, 22, 23, 27, 28, 31, Nov. 3, 12, 18, 21, 26, 28, Dec. 2, 5, 11, 16, 24, 30, 1942 Jan. 5, 7, 9, 14, 22, 24, Feb. 2, 5, 13, 19, Mar. 4, 9, 10, 11, 12, 13, 14, 15, 14, 18, 19, 20, 21, 22, 23, 25, 26, 24, 31, Apr. 2, 10, 16, 20, 22, 23, 24, 29, 30, May 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 21  
Total No. of Visits 91