

State if Report is sent on the Machinery of the Vessel

Port of Liverpool

No. 97993

Survey held at Buhenhead Date First Survey May 27th 1930 Last Survey November 27th 1930

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

Single Screw Steamer "CALDER".

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

Full Scantling

State Type of Erections & Forecasts

TONNAGE under } 869-68
Tonnage Deck...

CLASS I 100A.1

State if with freeboard
as condition of Class

Built at *Birkenhead*

*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 240-0

Launched 8th October 1930. Yard No. 976

Total 869.68

Breadth (*greatest moulded*)

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

B 34-0

Builders Messrs Cammell Laird & Co. Ltd

Gross Tonnage 1107.30

1st Longitudinal Number (L x D)..... = 3920

Managers

REGISTERED DIMENSIONS.
FEET.

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

Residence London

length 240.6

Proportions—Depth to Length—Uppermost continuous deck to top of keel

Port of Registry *Goole*

readth 34.15

Do. Long Bridge to top
of keel

If surveyed while building, afloat, ~~on~~ in dry dock

depth 15.4

Draught Moulded 14'-8 1/4"

усо

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
RAMES, Spacing amidships	23	
" " from $\frac{3}{8}$ length to Collision bulkhead.....	23	
" " in peaks.....	23	
DE FRAMING.		
Frame Amidships, Angle, E or F	6 3 .39	(Bunker room & Bunkers)
" " Extends up to	upper 2%	wood
Reversed Frame Amidships, Angle	-	
" " Extends up to	E	wood
Depth of Framing Girder.....	5 1/2	square
Frames in Uppermost Continuous 'tween Decks, Angle, C or D	E	square
" " Second 'tween Decks, Angle, C or D	A	wood
" " Third " " " " " "	F	wood
Framing in Peaks, Angle -F	6 3 .36	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8, 1, 5/8, 3/4, 1/2	square
State if Frame Joggled	yes	square
SCANTLING ARRANGEMENTS (Sec. 7), state system and particulars)	2-Side Stringer 1 Intermediate Member H 2 L Joist. 2-5 Girders shell plating next keel amidships thickness same as rule Penetration of Collision Bulk.	
STRENGTHENING OF BOTTOM FORWARD. State Particulars		
INNER BOTTOM.		
Floors, Depth and thickness at mid-line in Holds, Bunkers, & Cross Bunkers	20 x .34 Cross bunker 20 x .49 B.S.	
Height of Brackets at side above base line at toe of frame	52 in Bunkers 48 in Baler space .35 Cross bunker.	
Middle Line Keelson, on Floors, Angles, E or F	5 x 5 x .45 B.S.	
" " Through Plate or Intercoastal Plate5 x 5 B.S. .35 Cross bunker.	
" " Foundation Plate on Floors	12 x .53 B.S. .43 C. Bunker	
" " Flat Plate Keel Angles	4 x 4 x .50 Double	
Side Keelsons, No. each side	Two	
" " thickness of Intercoastal Plate44 B.S. .34 Cross Bunker	
" " Angles	5 x 3 x .50 B.S. .40 Cross Bunker	
OUTER BOTTOM.		
Solid Floors, thickness and spacing31-.23	
Are Frame and Reversed Frame joggled?	yes	
Bracket Floors, breadth and thickness at middle line.....	-	
" " breadth and thickness at margin plate.....	-	
Bracket Floors, Frame	-	
" " Reversed Frame	-	
" " Vertical Struts	-	
Centre Girder, depth and thickness amidships	32 x 41/35	
" " top Angles	Single 3 3 .39	
" " bottom Angles	Double 4 x 4 x 45/40	
Side Girders, No. each side and thickness	One .31	
Margin Plate depth (excl. of flange) and thickness	29 x .36	
" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 3 .31	
" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5 5 .31	
" " Gussets, spacing and scantling abaft 1/2 len. from stem.....	-	
" " Gussets, spacing and scantling forward 1/2 len. from stem.....	-	
Tank Side Brackets, height above base line at toe of frame and thickness	40 x 31	
INNER BOTTOM PLATING.		
Breadth and thickness of Middle Line Strake	48 x 44/40	
Thickness of remainder in Holds	32/30	
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	
BEAMS.		
Uppermost Continuous Deck, amidships in Wells, Angle, E or F	6 3 .36	(Carplan)
" " in way of Bridge, Angle, E or F	6 3 .36 A.A. 6 3 .39 A.A.	
Spacing	23 x 46	(see Note)
Second Deck, amidships, Angle, C or D	-	
Spacing.....	-	
Third Deck, amidships, Angle, C or D	-	
Spacing.....	-	
Fourth Deck, amidships, Angle, C or D	-	
Spacing.....	-	
Poop Deck, Angle, E or F	6 3 .36 4 3 .34	
Spacing.....	23 x 46	
Bridge Deck, Angle, E or F	4 3 .34 4 3 .32	
Spacing.....	23	
Forecastle Deck, Angle, E or F	7 x 3 x .36	
Spacing	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.....	one		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	✓	
„ „ „ „ „	✓		Thickness of Plating abreast Deck openings in way of Bridge	✓	
„ in Holds „ „	4" on. spaced 46		Thickness of Plating within line of openings...	✓	
„ „ „ „ „	✓		If Sheathed, material and thickness	✓	
Centre Line Bulkhead.			Third Deck.		
Stiffeners and Spacing.....	✓		Stringer Plate, breadth and thickness.....	✓	
Plating, thickness of	✓		If Plated, state thickness.....	✓	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	✓	
Stringer Plate, breadth and thickness in Wells	45" x 63		If Plated, state thickness	✓	
„ „ „ „ in way of Bridge	45" x 34		Poop Deck.		
„ Angle in Wells	5" 5" 58		Stringer Plate, breadth and thickness	22 x 30	
Thickness of Plating abreast Deck openings in way of Wells	32		Plating, Sheathing, material and thickness ...	30, sheathed 8x3 P. line	
Thickness of Plating abreast Deck openings in way of Bridge	32/34		Bridge Deck.		
Thickness of Plating within line of openings...	30/34		Stringer Plate, breadth and thickness.....	42 x 36	
If Sheathed, material and thickness	✓		Plating, Sheathing, material and thickness ...	32 Composition in way of house	
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	✓		Stringer Plate, breadth and thickness.....	22 x 34	
			Plating, Sheathing, material and thickness ...	34 x 40 in way of Windlass 3" TRK.	

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged?		BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.					Diam.	Spacing or to cr.		
	Inches.	Inches.	Inches.	Inches.					Inches.	Inches.		
FLAT PLATE KEEL	42	75	59	59	(la letter)	Double	1"	4	4R	1	4	
„ DBLG. (if any)		60	40-0	from stamp								
BOTTOM PLATING, No. of Strakes	54	42	38	42		Double	3/4	3	3R	3/4	2 5/8	
BILGE PLATING, No. of Strakes	48	42	38	42		Single	3/4	3	3R 2R	3/4	2 7/8	
SIDE PLATING, No. of Strakes	50	42	38	38		Single	3/4	3	2R	3/4	2 7/8	
UPPER DECK, Sheer-strake in Wells.....	46	75 at bow 97 mid.	38	38		Double	1	4	5R	7/8	3 1/2	
UPPER DECK, Sheer-strake in Bridge ...	46	42	38	38	97 at ends of Bridge.	Single & Double	1 3/4	3 1/4	5R 2R	1 3/4	2 5/8	
STRAKE BELOW Sheer-strake in Wells.....	46	52	38	38		Single	7/8	3 1/2	3R	7/8	3 1/8	
STRAKE BELOW Sheer-strake in Bridge ...	46	42	✓	✓		Single	3/4	3	3R 2R	7/8	3 1/8	
POOP SIDE PLATING	✓	28	✓	✓		Single	5/8	2 1/2	1R	5/8	2 1/4	
BRIDGE SIDE PLATING...	✓	42/46	✓	✓		Single	3/4	3	3R	5/8	2 5/8	
FORECASTLE SIDE PLATING	✓	30/32	✓	✓		Single	7/8	2 1/2	1R	5/8	2 1/4	

WATERTIGHT BULKHEADS.

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

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks					
„ „ Second	FR. 94	25/34	6 1/2 x 3 x 34	30	✓
„ „ Third	FR. 69	25/45	6 1/2 x 3 x 34	30	✓
„ „ Holds	FR. 39	25/33	6 x 3 x 36	24 x 27	✓
COLLISION (in Hold)		37/45	6 x 3 x 38	24	✓
AFTER PEAK „		30/45	8 x 3 x 40	24	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar.	Roller Steel	6 7/8 x 1 1/4	David Colville & Co.	
STEM	Cast Steel	8 5/8 x 4 1/2	The Steel Co. of Scotland	
STERN FRAME (Propeller Post	Cast Steel	6" x 4 7/8		
(Rudder				
RUDDER—A x D				
Speed of Vessel 13 knots				
RUDDER mainpiece at head ...				
„ „ heel ...				
„ how constructed				
„ double or single plate coupling, vertical or horizontal.....				

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Siemens open hearth.*
Pease, Partners; Appleby Iron Co.; Baldwin & Co.; Dorman Long Co.; Consett Iron Co.; Steel Co. of Scotland; Cleveland Steel Works; Camp Steel Iron Co. Ltd.
 Has the Steel been tested as required by the Rules? *Yes.*

EQUIPMENT No. 13613										LETTER 0	ANCHORS. 2B-15.				
Number of Certificate.	Anchors.	WEIGHT, xxx 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.				
63869	1st Bower ...	28	3	25	-	-	-	27	17	2	0	28	Taylor Drednought	S. Taylor & Sons	Brinsley Hill Rd. L.P.H.T. 27 1/2 / 30 W.A. Drysdale.
63870	2nd „ ...	28	2	7	-	-	-	27	10	0	0	28	D ²	D ²	L.P.H.T. 28 1/2 - / 30 D ²
63871	3rd „ ...	24	2	4	-	-	-	24	6	1	0	24	D ²	D ²	L.P.H.T. 25 1/2 - / 30 D ²
	Collective weight.	82	0	8	-	-	-	-	-	-	-	80	-	-	-
63872	Stream ^{Stock} ...	7	1	0	1	3	18	9	9	1	14	7	Ordinary Anchor	D ²	L.P.H.T. 25 1/2 - / 30 D ²

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.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.
66279	120 1/2	1 3/16	43 3/10	6 1/10	182-3-12	298 3/4	240	1 3/16	240	1 3/16	Slit	S. Taylor & Sons	L.P.H.T. 30 1/2 / 30 W.A. Drysdale	TOWLINE	90	3 1/4	217	90	3 1/4
66280	120	1 3/16	43 3/10	6 1/10	182-1-6	-	-	-	-	-	D ²	D ²	L.P.H.T. 30 1/2 / 30 W.A. Drysdale	HAWSERS & WARPS	1-90	2 1/4	-	90	2 1/4
	240	-	-	-	30 1/2 - 0 - 18	-	-	-	-	-	-	-	-	-	1-90	1 3/4	-	-	-
	Cir.	-	-	-	-	-	-	-	-	-	-	-	-	-	1-90 MAN.	10	-	90	1 3/4
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2-90 MAN.	2 1/2	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4-90 MAN.	4 1/2	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4-75 W.	2 1/2	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2-75 W.	2 1/2	-	-	-
Lean Stearns Chain Steel Wire	75	3 3/4	-	29.3	-	-	-	-	75	3 3/4	-	-	-	-	-	-	-	-	-

Steering Gear, Steam by J. Hattie with Brown Indicator. Steering Gear, Hand

Boats 2-23-95' x 7-11' x 3-0' Steering Chains, Size and Test Windlass Steam by Emerson Walker.

Ceiling in Holds, thickness and material 3" R. Pine, sheathed 3" a. Elm Cargo Battens, thickness, material and spacing 6" x 2" W. Pine, 9" spaces.

Cargo Hatchways. (Upper Deck) Built plates and angles Thickness of Hatches 3" white pine

Size of No. 1 Hatchway (Forward) 15'5" x 11'0" No. 2 26'10" x 13'0" No. 3 25'0" x 12'0" No. 4 No. 5 No. 6

Number of Shifting Beams and for Fore and Afters 101-2 Beams; 102-4 Beams; 103-4 Beams. 10 fore and afters

GAMMELL LAIRD AND COMPANY LIMITED.

Builder's Signature

SECRETARY.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the approved plans, the Secretary's letters, and the Society's rules for the class contemplated.

The workmanship and materials are good.

A purboard of 1' 10 1/2" has been assigned and verified, and the purboard marks cut in on the vessel's sides.

All double bottom tanks, peak tanks, Decks and bulkheads and tunnel have been satisfactorily tested.

Approved plans, 17 in number, (details on page 4), are forwarded with this report.

The amount of Entry Fee £ 5 : 0 : 0 Fees applied for 9/12/1930

Special Survey Fee £ 110 : 14 : 0 Received by me, 31.12.1930

Travelling Expenses, if any £ (302.312)

I am of opinion the Vessel should be Classed \pm 100A.1.

State whether the Vessel has been built under Special Survey yes

Certificate to be sent to Date of issue 1/1/31

Signature E.H. Dean

Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 12 DEC 1930

Character assigned + 100 A1-11.30

The Surveyor is requested to write on or below the Committee's Minute.

Lloyds A & C.P.

+ L.M.C. - 11.30

Elec: Light.



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W615-0239 (212)

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 following approved plans are forwarded with this report:—

- Midship Section.
- Longitudinal Section.
- Engine and Boiler Casing Scantlings.
- Stem Framing.
- Gangway Doors.
- Wast Plan.
- Full size Section of Propeller Post.
- Rudder Frangings and Stem Frame.
- Alternative proposal for upper Deck plating.
- Rudder and Stem frame.
- Cargo Hatches.
- Detail of Reith Hatch Patent (2 plans). Not fitted in ship.
- Arrangement of in way of No. 3 Hatch.
- Compensation angles at corner of after gangway doors.
- Plan showing Construction in way of Boiler uptakes.
- Details of Multiple Runting.

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

1st Bower

2nd "

3rd "

Forged Joint Steel Head & Shank

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 38.33 ft., R.Q.D. ft., Bridge 84.5 ft., Forecastle 34.5 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) 1 Deck (SGL)

Official No. 161047; Signal Letters
particulars of composition

Is bottom of Vessel coated with cement yes if not give

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	57.6"	57.18	Fore peak tank,	17.2"	16.8
Double bottom, under Engines and Boilers,	15.4"	25.88	After peak tank,	15.4"	40.05
Double bottom, if under Engines only,	90.1"	110.13	Deep tank, aft,		
Double bottom, if under Boilers only, <i>dean</i>			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
			(If necessary, furnish further information by sketch.)		

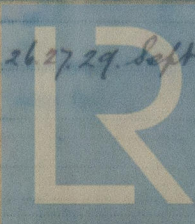
* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 1250.

Date 20/6/30.

Dates of Surveys held while building

May 27. 30. June 5. 10. 18. 20. 24. 30. July 7. 11. 16. 30. Aug 13. 19. 26. 27. 29. Sept 1. 3. 5. 11. 16. 18. 23. 25. 30. Oct 2. 7. 8. 9. 10. 13. 14. 15. 21. 23. 30. Nov 6. 7. 11. 13. 17. 18. 24. 27.



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Total No. of Visits 45