

With or Without  
Disconnected Erections

# FERRO-CONCRETE VESSEL.

WED. 12 NOV. 1919

TYPE *SINGLE SCREW TUG*

(Received at London Office)

of completion of report *8<sup>th</sup> November 1919*

Port of *SUNDERLAND*

No. *27654*

held at *Sunderland*

Date, First Survey *14 August*

Last Survey *6<sup>th</sup> November*

1919

(State if Single, Twin, or Triple Screw)

*Single Screw Tug "CRETECABLE"*

Rig *One mast - no sails*

AGE under  
age Deck... *258-61*

Between Tonnage Dk. *✓*  
and 3rd and 4th Dk. *✓*

age under Upper Dk. *258-61*

Poop *✓*

R.Q.Dk. *✓*

Bridge House *✓*

Forecastle Houses *1-80*

Houses on Dk. *✓*

Excess of Hatchways *1-78*

above Crown of *✓*  
Engine Room ... *✓*

Tonnage *262-19*

Crew Space *53-38*

above Crown of *✓*  
Engine Room ... *✓*

AGE FOR FEES... *208-81*

Engine Room *212-92*

Navigation Spaces *✓*

Navigation Spaces *✓*

Navigation Spaces *✓*

Navigation Spaces *✓*

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Navigation Spaces *✓*

CLASS *A1* for towing purposes *Coasting, U.K. (except West Coast)*

*Cork to Ballland, Irish) and Continent - from Great to Hamburg*

*Subject to annual Survey. "Experimental"*

Type of Construction *Monolithic*

Breadth (outside of slabs) *27-85*

\*Depth at middle of length from underside of bottom  
slab at keel to top of upper deck slab at side ... *14-75*

Ditto " " Bridge " " " *✓*

Length on deck from fore part of stem to after part  
of stern post ... *125-6*

Proportions—Depths (\*) to Length—Upper Deck *8-51*

" " Bridge Deck *✓*

Destined Voyage *Coasting*

Master *J. Murray*

Year of appointment *(1) As Master in Service of owner of present vessel. (2) As Master of this vessel.*

Built at *Southwick - Sunderland*

When built *1919* Launched *17<sup>th</sup> July 1919*

By whom built *Wear Concrete Building Co. Ltd.*

*Southwick, Sunderland.*

Owners. *His Majesty represented by the Shipping Controller*

Managers *Sir E. Glover*

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

Residence *London*

Port belonging to *London*

If Surveyed while Building *At float, under Deck* *Yes*

Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, ACTUAL—	Top of Floors to top of Upper Dk. Beam	Feet.	Inches.	No. of laid Decks
125	7 <sup>1</sup> / <sub>4</sub>	✓	27	10 <sup>1</sup> / <sub>4</sub>	Do. do. do. do.	Second Dk. Beam	13	0	one

Dimensions from Ship's Register, Length *125-6* breadth *27-85* depth *12-7* Moulded depth, ft. *14* ins. *9* To Upper Dk. *9* ins.

	In Ship.		Approved.			In Ship.		Approved.	
	Concrete.	Reinforcement	Concrete.	Reinforcement		Concrete.	Reinforcement	Concrete.	Reinforcement
<b>FRAMES at Sides, Amidships</b>					<b>CENTRE LINE KEELSON</b>	<i>30" x 6"</i>	<i>2 bars 1" dia at heel and 2 bars 1" dia at toe</i>	<i>- do -</i>	<i>- do -</i>
Spacing <i>14" 0" centres</i> ✓	<i>14" x 14"</i>	<i>2 bars 7/8" dia at heel and 2 bars 7/8" dia at toe</i>	<i>- do -</i>	<i>- do -</i>	<b>SIDE KEELSONS</b>	<i>14" x 3"</i>	<i>1 bar 1" dia at toe, and 1 bar 1" dia at heel</i>	<i>- do -</i>	<i>- do -</i>
					Spacing				
					No. Each Side <i>one</i>				
<b>FLOORS, Amidships</b>					<b>BILGE KEELSON</b>				
Spacing <i>14" 0" centres</i> ✓	<i>30" 6" 13" x 14"</i>	<i>2 bars 7/8" dia at heel and 2 bars 7/8" dia at toe</i>	<i>- do -</i>	<i>- do -</i>					
<b>DOUBLE BOTTOM, Floors</b>					<b>SIDE STRINGERS</b>	<i>15" x 3"</i>	<i>1 bar 1" dia at heel and 2 bars 1" dia at toe</i>	<i>- do -</i>	<i>- do -</i>
Amidships					Spacing				
Spacing					No. Each Side <i>one in fore - peak only</i>				
<b>CENTRE GIRDER</b>					<b>BILGE CHINE</b>				
<b>SIDE GIRDERS &amp; Margin</b>					<b>UPPER CHINE</b>				
No. Each Side including Margin									



	In Ship.		Approved.			In Ship.		Approved.	
	Concrete.	Reinforcement	Concrete.	Reinforcement		Concrete.	Reinforcement	Concrete.	Reinforcement
<b>BEAMS:</b> Upper Deck	12 1/2 x 3	1/2 dia at top and 1/2 dia at bottom	-do-	-do-	<b>Second Deck</b> (Material and Thickness) Concrete	2 1/2	1/2 dia at top and 1/2 dia at bottom	-do-	-do-
Half Beams, Upper Deck	12 1/2 x 3	1/2 dia at top and 1/2 dia at bottom	-do-	-do-	<b>Poop Deck</b> (Material and Thickness)				
Second Deck	15 x 4	1/2 dia at top and 1/2 dia at bottom	-do-	-do-	<b>Bridge Deck</b> (Material and Thickness) Concrete	2 1/2	1/2 dia at top and 1/2 dia at bottom	-do-	-do-
Half Beams, Second Deck					<b>Forecastle Deck</b> (Mat. and Thickness) Concrete	2 1/2	1/2 dia at top and 1/2 dia at bottom	-do-	-do-
Poop Deck					<b>W.T. Bulkheads</b> Number 2 - Fore and Aft of engine and boiler house	3 and 3 1/2	1/2 dia at top and 1/2 dia at bottom	-do-	-do-
Bridge Deck					<b>After Peak</b>	3	1/2 dia at top and 1/2 dia at bottom	-do-	-do-
Forecastle Deck	12 1/2 x 3	1/2 dia at top and 1/2 dia at bottom	-do-	-do-	<b>Other W.T. Bulkheads</b>				
<b>Girders &amp; Pillars in 'tween Decks</b> Spacing 6 ft. I. Columns 2 dia in Crews Accommodation spaced 8' 0" and 6' 3" ft. I. Columns 2 dia in Officers Accommodation spaced 8' 9"					<b>FORGINGS OR CASTINGS.</b>				
<b>Girders &amp; Pillars in Hold</b> Spacing					<b>KEEL, Bar, depth and thickness</b>	1/2 dia reinforced concrete			
					<b>STEM, moulding and thickness</b>	4 x 1 1/2			
					<b>STERN-POST for Rudder do. do.</b>	6 x 3 1/2			
					<b>RUDDER - A x D Table 22, Rules for Steel Ships</b>	11 ft. x 6 ft. 104			
					<b>Main-Piece, diameter at head</b>	5 1/2			
					<b>RUDDER, how constructed</b>	pressed, shunk arms & single plate			
					<b>Thickness of Plates or Single Plate</b>	88			
					<b>Can the rudder be unshipped afloat?</b>	Yes			
					<b>Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Reinforcement:</b>	Connell Iron Co. Ld.; South Durham Steel & Iron Co. open hearth process			
					<b>Has the Steel been tested as required by the Rules?</b>	Yes			
<b>Bottom Slab</b>	3	1/2 dia spaced 6" and 1/2 dia at 8" centres	-do-	-do-	<b>MASTS, SPARS, &amp;c.</b>				
<b>Inner bottom Slab</b>	3	1/2 dia spaced 6" and 1/2 dia at 8" centres	-do-	-do-	<b>Fore</b>	Steel	56' 4"	9 1/2 x 5 1/2	
<b>Side Slabs</b>	3	1/2 dia spaced 6" and 1/2 dia at 8" centres	-do-	-do-	<b>Main</b>	none			
<b>Upper Deck Slab (Material and Thickness)</b>	Concrete	2 1/2	-do-	-do-	<b>Mizen</b>	none			
<b>Lower Masts</b>					<b>Bowsprit</b>	none			
<b>Topmasts, Yards and Remainder of Spars</b>					<b>Rigging, Material and Size, Shrouds</b>	Steel wire 2"			
<b>Sails</b>	none				<b>Sails, and the following spare sails</b>	Stays steel wire 2"			

EQUIPMENT No. 5536		LETTER		ANCHORS.													
Number of Certificate	Anchors	WEIGHT, E.E. STOCK		TEST, PER CERTIFICATE		WEIGHT REQUIRED BY TABLE 31		Description of Anchor	Makers	Where and when tested and Superintendent							
		Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.				lbs.						
31850	1st Bower	8	2	8	10	15	0	0	8	1	0	Apitannie Stockless	R. S. & Co. Ltd.	25/6/19	S. C. Paul		
31849	2nd "	8	2	4	10	12	2	0	7	2	0	"	"	"	"		
	3rd "																
	4th "																
	Collective weight	17	0	12					15	3	0						
30376	Stream	3	1	0	3	14	5	14	1	14	3	1	0	Iron Stock	R. S. & Co. Ltd.	12-12-18	S. C. Paul
	Kedge																
Particulars of Drop Test of Cast Steel Anchors, viz.:-		1st Bower		5-0-25 DDW		2161		13-5-19									
Weight, Surveyor's Initials, Number of Certificate, Date of Test.		2nd "		5-0-25 DDW		2160		13-5-19									
		3rd "															
		4th "															
<b>CHAIN CABLES.</b>												<b>HAWSERS AND WARPS.</b>					
Number of Certificate	Length and size supplied	Test per Certificate	WEIGHT OF CHAIN CABLE	Length and size per Table 31	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 31	TOWLINE		HAWSERS & WARPS			
												Length	Cir.	Length	Cir.		
13235	105 fms. 1 1/2	22 1/2	34 1/8	10-2-15	Standard	R. S. & Co. Ltd.	25/6/19	2161	25	1 1/2	25	1 1/2	25	1 1/2	25		
27134	15 fms. 1 1/2	22 1/2	34 1/8	10-2-15	Standard	R. S. & Co. Ltd.	25/6/19	2161	15	1 1/2	15	1 1/2	15	1 1/2	15		
	120 fms. 1 1/2	22 1/2	34 1/8	10-2-15	Standard	R. S. & Co. Ltd.	25/6/19	2161	120	1 1/2	120	1 1/2	120	1 1/2	120		
	120 fms. 1 1/2	22 1/2	34 1/8	10-2-15	Standard	R. S. & Co. Ltd.	25/6/19	2161	120	1 1/2	120	1 1/2	120	1 1/2	120		
<b>Boats</b> Two life boats																	
<b>Pumps, Number</b> one																	
<b>Windlass</b> is Emerson & Westons Thomson & Co. direct steam																	
<b>Engine Room Skylights</b> - How constructed? Steel plates & angles																	
<b>Coal Bunker Openings</b> - How constructed? Cast iron																	
<b>Number of Scuppers</b> , and numbers and dimensions of Freeing Ports, &c. 7 scuppers each side, 4 freeing ports each side 1' 9" x 1' 1"																	
<b>Ceiling in Holds</b> , thickness and material 2 1/2" W. I. in fore and aft																	
<b>Cargo Hatchways</b> - How formed? none																	
<b>State size No. 1 Hatch (Forward)</b> No. 2 Hatch No. 3 Hatch No. 4 Hatch																	
<b>Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch</b>																	
<b>Bulwarks</b> , height above deck and description 3' 0" x 2' 1/2" bars spaced 6" x 4" Concrete																	
<b>The foregoing is a correct description of the vessel</b>																	
<b>Builder's Signature</b> (here only) W. D. Denton																	
<b>Concrete</b> - Materials used: Aggregate, Size and Particulars of Concrete, Portland Cement Brand, Portland Cement Brand																	
<b>Proportions</b> - 1 Portland Cement, 1 1/2 sand, 3 1/2 concrete and 5 sea 1:1:2 1/2 graded granite																	
<b>Test Results of Concrete actually used in Vessel</b> - Average crushing at seven days 3655 lbs. per sq. inch. Size of Cubes 12" x 12" x 12"																	
<b>Percolation</b> at 4 days on a slab size 9' 9" x 2' 1/2" Water penetration 1 1/2", 1 1/2" and 1 1/2" approved 27/11/18																	
<b>Correspondence</b> - State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case) M 27 Aug 1918, subsequent date E 11/4/18, 11/9/18, 27/1/18																	
<b>Have all the upper and weather decks been tested as required by the Rules for Steel Ships (Sec. 26, par. 20)?</b> Yes State results of tests Good																	
<b>Have all the gutterways been tested as required by the Rules for Steel Ships (Sec. 26, par. 20)?</b> Yes State results of tests Good																	
<b>Workmanship</b> - The vessel has been built in accordance with approved plans and drawings and materials and the workmanship is good																	
<b>This vessel is a duplicate of the same Builders "Castrope", Yard No. 2, Report No. 27585</b>																	
<b>Plan of typical sections is forwarded herewith</b>																	
<b>The Surveyor should state the Number of Report and Name of any Sister Vessel.</b>																	
<b>Plans to be forwarded with F.E. Report showing vessel as built.</b>																	
<b>The amount of Entry Fee</b> £ 100																	
<b>Special Survey Fee</b> £ 37																	
<b>Travelling Expenses, if any</b> £																	
<b>Fees applied for, from London</b>																	
<b>Received by me</b>																	
<b>State whether the Vessel has been built under Special Survey</b> Yes																	
<b>I am of opinion this Vessel should be Classed</b> A1 For towing purposes																	
<b>With, or without Freeboard, as condition of Class</b> Without																	
<b>Committee's Minute</b>																	
<b>Character assigned</b> A1																	
<b>For towing purposes</b>																	
<b>"Coasting U. K. (except West Coast, Cork to Pentland Firth) and Continent from Brest to Hamburg"</b>																	
<b>Subject to Annual Survey</b>																	
<b>"Experimental"</b>																	
<b>Lloyd's A.C.P.</b>																	
<b>L.M.C. 11, 19</b>																	



GENERAL REMARKS—

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

No. and Material of Decks and No. of tiers of Beams (this information is to be given as it should appear in the Register Book)

1 Deck; reinforced Concrete; 14 beams.

Official No. 143.370 ; Signal Letters

State if Machinery is fitted aft ☒ no

If bottom of Vessel has been coated with any waterproofing material, paint, or other composition, give particulars *super cement*

PARATICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system.

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<input checked="" type="checkbox"/>		Fore peak tank,	<input checked="" type="checkbox"/>	
Double bottom, under Engines and Boilers,	<input checked="" type="checkbox"/>		After peak tank,	<input checked="" type="checkbox"/>	
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>		Deep tank, aft,	<input checked="" type="checkbox"/>	
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>		Deep tank, forward,	<input checked="" type="checkbox"/>	
Double bottom, forward,	<input checked="" type="checkbox"/>		Other tanks, if fitted, <i>Feed tanks at sides in boiler space</i>	11.7	18
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

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

State whether the above have been tested as required by the Rules ☒ yes

Order for Special Survey No. ☒

Date

No.

3

in builder's yard.

DATES OF SURVEYS held while building

14<sup>th</sup> August 1918, to 6<sup>th</sup> Nov. 1919. = 105 visits

Surveyor's Signature

*Geo. J. B. Wilson*

Total No. of Visits

105

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