

1 or 2 Dks., R.Q.Dk.,
and Pt. Awng. Dk.

IRON OR STEEL STEAMER.

No. 16472

State if Report is also sent on the Machinery of the Vessel *Yes. (fmo Rpt)*
Date of completion of Report *16th Dec. 1904* Port of Hull *Hull*
Date, First Survey *Sept 12th* Last Survey *January 2 1905*

Survey held at *Selly*
On the *Steam Trawler "LEO"*

TONNAGE under
Tonnage Deck... 164.93
Do. of Poop...
Do. of Raised Qr. } 12.28
Dk. or Break... }
Do. of Bridge House... 3.03
Do. of Forecastle... 6.1
Do. of Houses on Deck...
Do. of excess of Hatchways...
Do. above Crown of }
Engine Room... } 190.55
Gross Tonnage... 22.24
Less Crew Space...
Less above Crown of }
Engine Room... } 154.61
FOR FEES...
Engine Room... 92.03
Navigation Spaces... 4.98
Net Tonnage... 60.60
on Beam... 60.60

ONE OR TWO DECKED VESSEL *44*
CLASS *100A1* "Steam Trawler".

Master *B. Gilding*
Year of appointment *1902*
Built at *Selly*
When built *1904* Launched *12th Nov.*
By whom built *Cochran & Sons*
Owners *Thames & Mersey Dock & Harbour Co. Ltd.*
Managers *Thames & Mersey Dock & Harbour Co. Ltd.*
(Where necessary to be entered in Reg. Book.)
Residence *Grimsby*
Port belonging to *Grimsby*

Half Breadth (moulded) 10.50
Depth from upper part of Keel to top of Main Deck Bms. 12.33
Girth of Half Midship Frame (as per Rule) 17.89
1st Number 40.42
Length on deck from after part of stem to fore part of stern post 108.54
2nd Number 44.31
Proportions—Breadths to Length 5.18
Depths to Length—Main Deck to top of Keel 8.82
Destined Voyage *Fishing* If Surveyed while Building, Afloat, or in Dry Dock *Yes*

TH on Deck as	Fect.	Inches.	BREADTH—	Fect.	Inches.	DEPTH, ACTUAL—	Fect.	Inches.	No. of Decks with Flat laid
rule	108	10	Moulded	21	0	Top of Floors to top of Main Deck Beams	11	0	One

Dimensions of Ship per Register, Length, 110.0 breadth, 21.0 depth, 10.97 Moulded Depth, 11 ft. 10 ins. Round of Beam, Actual 6 ins.

FRAMING.				FORGINGS AND CASTINGS.			
Inches in Ship.	Inches in Ship.	16ths in Ship.	Inches per Rule Or as Approved.	Inches in Ship.	Inches in Ship.	16ths in Ship.	Inches per Rule Or as Approved.
Angles, <i>7-8-9</i> for $\frac{1}{2}$ length amidships	3	2 $\frac{1}{2}$	5	3	2 $\frac{1}{2}$	5	5
for $\frac{1}{2}$ at each end				KEEL, Bar on Side Plates depth and thickness	4 $\frac{1}{2}$ x 1 $\frac{1}{2}$		7 $\frac{1}{2}$ x 1 $\frac{1}{2}$
in way of Double Bottoms at Solid Floors				STEM, moulding and thickness	4 $\frac{1}{2}$ x 1 $\frac{1}{2}$		7 $\frac{1}{2}$ x 1 $\frac{1}{2}$
" " at intermdt. Bkts.				STERN-POST for Rudder do. do.	6 $\frac{1}{2}$ x 2 $\frac{1}{2}$		6 $\frac{1}{2}$ x 2 $\frac{1}{2}$
of Frames from centre to centre	21		21	" for Propeller	4 $\frac{1}{4}$		4 $\frac{1}{4}$
BASED FRAME, Angles	2 $\frac{1}{2}$	2 $\frac{1}{2}$	4	MAIN PIECE of Rudder, diameter at head	3 $\frac{1}{4}$ x 2 $\frac{1}{2}$		2 $\frac{1}{2}$ x 2 $\frac{1}{2}$
FRAMING, depth of girder				do. at heel			
RS, depth and thickness of Floor Plate	16		16	RUDDER, how constructed <i>Forged iron frame, plated.</i>			
at mid-line for $\frac{1}{2}$ length amidships				Can the Rudder be unshipped afloat? <i>Yes</i>			
in way of Engines and Boilers				KEELSONS AND STRINGERS.			
thickness at the ends of vessel				CENTRE LINE KEELSON, Vertical Plate above	4 $\frac{1}{2}$		7
depth at $\frac{1}{2}$ the half breadth, as per Rule				floors, Through Plate, or Intercoastal Plate			
Height extended at the Bilges				" Rider Plate			
RS & BRACKETS, in Cell Dble Bottoms				" Bulb Plate to Intercoastal Keelson			
" state if flanged (top & bottom)				" Horizontal Plates on Floors			
" Spacing				" Angles	4	3	7
RE GIRDER, in Double Bottom, depth				SIDE KEELSON, Angles			
and thickness				" Bulb or Plate above floors for			
" Angles, Top				" Intercoastal Plate for			
" Bottom				" Attached to outside plating with Angle			
GIRDERS, number on each side & thickness				BILGE KEELSON, Angles <i>(Dim.)</i>	5	4	8
" state if flanged (top & bottom)				" Bulb or Plate above floors for			
Angles				" Intercoastal Plate for			
IN PLATE, depth (exclusive of flange)				" Attached to outside plating with Angle			
and thickness				BILGE STRINGER Angles			
Angles to Outside Plating				" Bulb Plate for			
" Floors				" Intercoastal Plate for			
Height of Floors at the Bilges				" Attached to outside plating with Angle			
BOTTOM PLATING, breadth and				SIDE STRINGER Angles <i>(Dim.)</i>	5	4	8
thickness of Middle Line Strake				" Bulb or Intercoastal Plate for			
" thickness in Engine and Boiler space				" Attached to outside plating with Angle			
" Remainder in Holds				Main and Raised Quarter Deck Stringer			
S, Main and Raised Quarter Deck,	5	3	8	Plate, breadth and thickness	50	6	50
Angle Angle, Bulb Angle, Plate or Tee Bulb				" Angle on ditto	3 x 3	6	3 x 3
Angles on Upper Edge				" Tie Plates fore & aft, outside Hatchways	8	8	8
Spacing				" Diagonal Tie Plates on Bms., No. of Pairs			
S, Lower Deck, Single Angle, Bulb				" Main Dk* Iron or Steel for			
Angle, Plate or Tee Bulb				" R. Q. Dk* <i>Iron or Steel for</i>			
Angles on Upper Edge				" Wood Deck, Material & thickness <i>P.P.</i>	3		3
Spacing				Lower Deck Stringer Plate, breadth and			
S, Hold, Plate or Tee Bulb				thickness			
Angles on Upper Edge				" Angles on ditto, No.			
Spacing				" Tie Plates, outside Hatchways			
S, Poop Deck, Angle, Bulb Angle, Plate				" Deck* Material and thickness			
or Tee Bulb				Hold Stringer Plate			
Angles on Upper Edge				" Angles on ditto, No.			
Spacing				Poop Deck Stringer Plate, breadth & thickness			
S, Bridge or Pt. Awng. Deck, Angle,				" Angle on ditto			
Bulb Angle Plate, or Tee Bulb				" Tie Plates			
Angles on Upper Edge				" Deck, Material and thickness			
Spacing				Bridge or Pt. Awning Deck Stringer Plate,			
S, Forecastle Deck, Angle, Bulb Angle,	5	3	8	breadth and thickness			
Plate or Tee Bulb				" Angle on ditto			
Angles on Upper Edge				" Tie Plates			
Spacing				" Deck, Material and thickness			
RS, In 'tween Decks, Size and Spacing				Forecastle Deck Stringer Plate, brdth & thcknss	42	5	42
" Hold				" Angle on ditto	3 x 3	6	3 x 3
" Quarter, 'tween Dks., "				" Tie Plates <i>(Deck plated over)</i>		5-4	5-4
" in Hold				" Deck, Material and thickness <i>P.P.</i>	3		3
WEB FRAMES, In Fore Body, No. and Spacing				* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.			
" " Brdth. & Thickness				BULKHEADS.			
" No. of Side Stringers				In Vessel.	Per Rule.	Thickness.	Horizontal.
WEB FRAMES, In E. & B. Space, No. & Spacing							Size.
" " Brdth. & Thickness							Spacing.
WEB FRAMES, In After Body, No. and Spacing							Vertical.
" " Brdth. & Thickness							Size.
" No. of Side Stringers							Spacing.
" Size of Angles or Tee Bars to Web Frames							Single or Double Frames.
BRACKET PLATES to Stringers between							Height up.
Web Frames, Depth and Thickness				W.T. BULKHEADS	3	3	5
				PARTITION			
				LONGITUDINAL			

PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		Edges.				Butts.				IF LAPPED.				
	AMIDSHIP.	FORWARD.	AFT.	AMIDSHIP.	FORWARD.	AFT.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	Double or Treble and for what Length.	Diam.	Spacing or to cr.	Breadth.	Thickness.				
FLAT PLATE KEEL	12	8	8	8	42	8	Double	4 1/2	2 1/2	3	Double	2 1/2	2 1/2	9 1/2	8				
GABBOARD OR A STRAKE	12	8	8	8	42	8	Double	4 1/2	2 1/2	3	Double	2 1/2	2 1/2	9 1/2	8				
State actual thickness in way of Double Bottom.	B	7	7	7	7	7	"	"	"	"	"	"	"	"	"				
C	7	7	7	7	7	7	"	"	"	"	"	"	"	"	"				
D	7	7	7	7	7	7	"	"	"	"	"	"	"	"	"				
E	7	7	7	7	7	7	"	"	"	"	"	"	"	"	"				
Shin	31	8	6	8	31	8	"	"	"	"	"	"	"	9 1/2	9				
G																			
H																			
J																			
K																			
L																			
M																			
N																			
O																			
P																			
DOUBLING OF Flat Plate Keel	✓																		
Length and thickness of Bilges	✓																		
Length and thickness of Sheerstrakes	✓																		
Length and thickness of Strake below	✓																		
POOP SIDES	✓																		
RAISED QUARTER DECK SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES																			
LENGTHS OF PLATING	4	Frame spaces																	

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, outside Plating, &c.?

Mild Steel.
Consett, South Durham S.S.C.

Has the Steel been tested as required by the Rules? *Yes*

FRAMES extend in one length from *Keel* to *Sumner* state if ordinary or joggled. *Ordinary*

REVERSED FRAMES on floors and frames extend from *centre to side stringer, and in way of holds and R.Q.D. to side stringer and Deck ultimately* state if ordinary or joggled. *Ordinary*

MASTS, SPARS, &c.

LOWER MASTS.	Material.	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	
Fore	P. Pin									
Main	P. Pin									
Mizen	P. Pin									

Bowsprit

Topmasts, Yards and Remainder of Spars

Rigging, Material and Size, Shrouds *wired*

Sails. *The* Suit of Sails and the following spare sails *Stays wire, Main 3 Topmast 2*

EQUIPMENT No. *4431* LETTER

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX STOCK.		WEIGHT, PER CERTIFICATE.		WEIGHT REQUIRED BY TABLE 22.		Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	lbs.	Cwts.	lbs.	Cwts.	lbs.			
52662	1st Bower	4	3	2	1	1	1	7	5	0
52634	2nd "	4	1	5	1	0	11	6	15	0
52661	3rd "	2	2	13	0	2	19	5	2	2
	Collective weight									
	Stream									
	Kedge									

CHAIN CABLES.

Number of Certificate.	Fathoms.	Size.	Test per Certificate.		WEIGHT OF CHAIN CABLE.		FATHOMS AND SIZE PER TABLE 22.		Description.	Makers of Cables.	When and where tested, and Superintendent.
			Tons.	Per Table 22.	Supplied.	Per Table 22.					
34511	90	1 1/2	23 3/4	15 1/8	40	2	14	40	2	13	90 x 1 1/2

HAWSERS AND WARPS.

Number of Certificate.	Fathoms.	Size.	Test per Certificate.		WEIGHT OF CHAIN CABLE.		FATHOMS AND SIZE PER TABLE 22.		Description.	Makers of Cables.	When and where tested, and Superintendent.
			Tons.	Per Table 22.	Supplied.	Per Table 22.					
34511	90	1 1/2	23 3/4	15 1/8	40	2	14	40	2	13	90 x 1 1/2

Boats *One*

Pumps, Number *Three*

Windlass is *Iron*

Engine Room Skylights.—How constructed? *Plates and angles*

What arrangements for deadlights in bad weather? *Steel shutters and bulletproofs.*

Coal Bunker Openings.—How constructed? *Plates & angles* How are lids secured? *Battered down* Height above deck? *10"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *On each side, 5 Scuppers, 4 freeing ports 18" x 9"*

Ceiling in Holds, thickness and material *2" pin*

Ceiling 'tween Decks, thickness and material *Hatches.—If strong and efficient? Yes*

Cargo Hatchways.—How formed? *Plates and angles.*

State size No. 1 Hatch (Forward) *5'0" x 3'6"* No. 2 Hatch *3'6" x 3'6"* No. 3 Hatch *3'6" x 3'6"* No. 4 Hatch *✓*

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *✓*

No. of Breasthooks *Five* No. of Crutches *1 and dup floor.*

Bulwarks, height above deck and description *2'9" 5/16 steel* Main Rail and Stays, material and size *1 1/2 x 3/8 steel B. A.*

The above is a correct description.

Builder's Signature *Bockman & Sons* Surveyor's Signature *Allison B. Wilson*

Surveyor to Lloyd's Register of British and Foreign Shipping.

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case) (M) 13.9.04

Workmanship. Are the butts of plating planed or otherwise fitted? *Planed*Is the riveted work properly closed? *Yes*Are the liners between the frames and plates solid single pieces? *Yes*

Do the holes for riveting plate to frames, butt straps, or plate

to plate, &c., conform well to each other? *Yes*

Are the rivet holes well and sufficiently countersunk in the plate and punched

from the faying surfaces? *Yes*Do any rivets break into or through the seams or butts of the plating? *a few*Are the butts of Plating, Stringers, &c., properly shifted and strapped? *Yes*Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par 24)? *Scawler* State results of tests *✓*Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *Scawler* State results of tests *✓*General Remarks (State quality of workmanship, &c.) *Workmanship good.*

This vessel has been built in accordance with the approved plans. The Secretary's letters of the above date, and in general conformity to the Rules for the class contemplated. 15th Dec. 1904. This vessel has left the port of Hull for Limerick to have her machinery, etc., fitted. In order to complete the vessel the engine & boiler casings & the deck in way of the same require to be refitted. The masts & rigging have to be fitted, & the hawsers, warps and sails supplied. Accompanying this Report, Plans of Midship Section, Profile and decks, and Report on Ships fittings.

The above noted items satisfactorily completed at Limerick.

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *✓* ft., R.Q.D. or Break *47.0* ft., Bridge Dk. *✓* ft., Forecastle *21.0* ft. (In feet and tenths) where the Poop is on top of the R.Q.D., or when the Poop or R.Q.D. is joined to the B.D., this should be distinctly stated *✓*

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *1 Dk.*

Official No. _____; Signal Letters _____

How are the surfaces preserved from oxidation? Inside *Portland Cement and paint* Outside *Paint*PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors *✓*

Where fitted.	*Length. Feet.	Water Capacity. Tons.	Where fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, <i>✓</i>			Fore peak tank, <i>✓</i>		
Double bottom, under Engines and Boilers, <i>✓</i>			After peak tank, <i>✓</i>		
Double bottom, if under Engines only, <i>✓</i>			Midship deep tank, <i>✓</i>		
Double bottom, if under Boilers only, <i>✓</i>			Other tanks, if fitted, <i>✓</i>		
Double bottom, forward, <i>✓</i>			(If necessary, furnish further information by sketch.) <i>✓</i>		

* 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 *✓*

Order for Special Survey No. *1431*

Date *16/9/04*

No. *333* in builder's yard

Dates of Surveys held while building *1904: Sep. 12, 16, 26. Oct. 5, 11, 20, 13, 28. Nov. 3, 11, 21. Dec. 2.*

at Limerick Dec. 15, 17, 29. 1904. Jan. 2

Total No. of Visits *16*

The amount of Entry Fee *£ 1 : : : 16/12/1904*

Special *£ 7 : 18 : -* Received by me, *19 Dec 1904*

Travelling Expenses, if any *£ 1 : 6 : 2*

State whether the Vessel has been built under Special Survey *Yes*

I am of opinion this Vessel should be Classed *100A1 "Steam Scawler"*

With, or without Freeboard, as condition of Class *Without*

Certificate to be sent to *Hull*

B. Ritchie Junr.

Allison B. Wilson.

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Character assigned

FRI. JAN 13 1905

100A1 (Steel)

Stm Scawler

Lloyds & G.P. + L.M.B. 1.05