1 ~~or 2~~ Decks. # IRON ~~OR STEEL~~ STEAMER.

10715

Received at London Office, THURS. 4 JUN 1891

State if Report is also sent on the Machinery of the Vessel

Date of completion of Report 3rd June 1891 Port of Glasgow

No. 10415 Survey held at Glasgow Date, First Survey 17th Feb. Last Survey 29th May 1891

of the Screw Steam Trawler "Diamond" Rig Jawl

PLANS

TONNAGE under Tonnage Deck	141·87
~~Poop~~	
~~or~~ Raised Qr. Dk. ~~or Break~~	5·03
~~Bridge House~~	
~~Houses on Deck~~	
~~sides of Hatchways~~	
~~&~~ Forecastle Break ~~above Crown of Engine Room~~	2·13
Gross Tonnage	149·03
Less Crew Space	11·46
~~Less above Crown of Engine Room~~	
TONNAGE FOR FEES	137·57
Deduction for Engine Room	74·66
~~Less~~ Navigation Spaces	1·91
	76·57
Register Tonnage ~~as cut on Beam~~	61·08

ONE ~~OR TWO~~ DECKED VESSEL.

CLASS 100 A

	FEET.
Half Breadth (*moulded*)	10·20
Depth *from upper part of Keel to top of Main Deck Bms.*	12·33
Girth *of Half Midship Frame (as per Rule)*	18·06
1st Number	40·59
Length	99·5
2nd Number	4018
Proportions—*Breadths to Length*	4·87
Depths to Length—Main Deck to top of Keel	8·06

Destined Voyage Coasting ~~If~~ *Surveyed while Building,* ~~Afloat, or in Dry Dock~~

Master Thos Welch

Year of appointment (1) *As master in service of owner of present vessel* 18 91 (2) *As master of this vessel* 18 91

Built at Govan Glasgow

When built 1891 *Launched* 17th May

By whom built Mackie & Thomson

Owners Kingston Steam Fishing Co. (Lim.)

Managers Widdowson & Spring

(*Where necessary to be entered in Reg. Book*).

Residence Hull

Port belonging to Hull

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH— Moulded	Feet.	Inches.	DEPTH Top of Floors to Main Deck Beams.	Feet.	Inches.	Power of Engines	Horse.	No. of Decks with Flat laid / No. of Tiers of Beams
	99	6		20	5		11	0		45	Open / Open

Dimensions of Ship per Register, length, 100·5 breadth, 20·5 depth, 10·75 Moulded Depth, ft. 11 ins. 11 Round of Beam 5 inches.

FORGINGS ~~AND CASTINGS.~~

	Inches in Ship.	Inches per Rule. Or as Approved.
KEEL, Bar ~~or Side Plates~~ depth and thickness	7½ × 1⅛	7½ × 1⅛
STEM, moulding and thickness ... Bulb	7½ × 1⅛	7½ × 1⅛
STERN-POST for Rudder do. do.	6 × 2½	6 × 2½
,, for Propeller	6 × 2½	6 × 2½
MAIN PIECE of **Rudder,** diameter at head	3½	3½
do. at heel	2	2
RUDDER, how constructed	Frame forged and plated	
Can the Rudder be unshipped afloat?		

FRAMING.

	Inches in Ship.	Inches in Ship	16ths ~~or 20ths~~ in Ship.	Inches per Rule Or as	Inches per Rule Approved.	16ths ~~or 20ths~~ per Rule ved.
FRAME, Angles, ~~or T Bars~~, for ⅜ length amidships	3	2½	5	3	2½	5
Do. for ⅛ at each end	3	2½	5	3	2½	5
~~in way of Double Bottoms~~						
Distance of Frames from moulding edge to moulding edge, all fore and aft		21			21	
REVERSED FRAME, Angles	2½	2½	4	2½	2½	4
FLOORS, depth and thickness of Floor Plate at mid-line for ⅜ length amidships	16 ×		5	16 ×		5
,, in way of Engines and Boilers	Straight on the up					
thickness at the ends of vessel	Tracing					
depth at ¾ the half breadth, as per Rule						
height extended at the Bilges						
~~BRACKETS, in Cell Dble Bottoms~~						
,, ~~Distance apart~~						
~~CENTRE GIRDER,~~ in Double Bottom, depths and thickness						
~~Angles, Top Bottom~~						
~~SIDE GIRDERS,~~ number and thickness						
~~Angles~~						
~~MARGIN PLATE,~~ depth (exclusive of flange) and thickness						
,, ~~Angles~~						
~~CENTRE BOTTOM PLATING,~~ breadth and ~~thickness of Middle Line Strake~~						
,, ,, ~~thickness in Engine and Boiler space~~						
,, ,, ,, ~~Remainder in Holds~~						
BEAMS, Main and Raised ~~Quarter~~ Deck, Single Angle, ~~Bulb Angle, Plate or Tee Bulb~~	5½	3	7	5½	3	7
,, ~~Angles on Upper Edge~~		42			42	
,, Average space						
~~BEAMS, Lower Deck,~~ Single Angle, Bulb Angle, Plate or Tee Bulb						
~~Angles on Upper Edge~~						
,, ~~Average space~~						
~~BEAMS, Hold,~~ Plate or Tee Bulb						
,, ~~Angles on Upper Edge~~						
,, ~~Average space~~						
~~BEAMS, Poop Deck,~~ Angle, Bulb Angle, Plate or Tee Bulb						
,, ~~Angles on Upper Edge~~						
,, Average space						
~~BEAMS, Bridge Deck,~~ Angle, Bulb Angle, Plate or Tee Bulb						
~~Angles on Upper Edge~~						
,, ~~Average Space~~						
~~BEAMS, Forecastle Deck,~~ Angle, Bulb Angle, Plate or Tee Bulb						
,, ~~Angles on Upper Edge~~						
,, ~~Average space~~						
PILLARS, ~~Between Decks,~~ Size and Spacing						
,, ,, ~~Hold~~ ,, ,,	2½	42		2½	42	
~~WEB FRAMES, In Fore Body,~~ No. and Spacing						
,, ,, ,, ~~Brdth. & Thickness~~						
,, ~~No. of Side Stringers~~ ,, ,,						
~~WEB FRAMES, In After Body,~~ No. and Spacing						
,, ,, ,, ~~Brdth. & Thickness~~						
,, ~~No. of Side Stringers~~ ,, ,,						
,, ~~Size of Angles or Tee Bars to~~ **Web Frames**						
~~BRACKET PLATES to Stringers between Web Frames, Depth and Thickness~~						

KEELSONS AND STRINGERS.

	Inches in Ship.	Inches in Ship.	16ths ~~or 20ths~~ in Ship.	Inches per Rule Or as	Inches per Rule Approved.	16ths ~~or 20ths~~ per Rule ved.
CENTRE LINE KEELSON, ~~Vertical~~ Plate above floors, ~~Through Plate, or Intercostal Plate~~	8 ×		8	8		8
,, ~~Rider Plate~~						
,, ~~Bulb Plate to Intercostal Keelson~~						
,, ~~Horizontal Plates on Floors~~						
,, Angles	4	3	7	4	3	7
~~SIDE KEELSON,~~ Angles						
,, ~~Bulb or Plate above floors for lng~~						
,, ~~Intercostal Plate for length~~						
,, ~~Attached to outside plating with Angle~~						
BILGE KEELSON, Angles Single	5	4	8	5	4	8
,, ~~Bulb or Plate above floors for lon~~						
,, ~~Intercostal Plate for length~~						
,, ~~Attached to outside plating with Angle~~						
~~BILGE STRINGER~~ Angles						
,, ~~Bulb Plate for length~~						
,, ~~Intercostal Plate for length~~						
,, ~~Attached to outside plating with Angle~~						
SIDE STRINGER Angles ~~Single~~	5	4	8	5	4	8
,, ~~Bulb or Intercostal Plate for lng~~						
Main and Raised ~~Quarter~~ Deck Stringer Plate, on ends of Beams, breadth & thknss	23	6		23	6	
,, Angle on ditto	3 × 3 ×	6		3 × 3 ×	6	
,, Tie Plates fore & aft, outside Hatchways	7	6		7	6	
,, ~~Diagonal Tie Plates on Bms., No. of Pairs~~						
,, Flat of Dk* Iron ~~or Steel for lng~~	Fwd of Engine & Boiler Openings					
,, ,, Wood Material & thickness	3" Pine			3		
,, How fastened to Beams	Bolted					
Lower Deck Stringer Plate, ~~on ends of Beams, breadth and thickness~~						
,, ~~Angles on ditto, No.~~						
,, ~~Tie Plates, outside Hatchways~~						
,, ~~Flat of Deck* Material and thickness~~						
,, ~~How fastened to Beams~~						
Hold Stringer Plate, ~~on ends of Beams~~						
,, ~~Angles on ditto, No.~~						
Poop Deck Stringer Plate, ~~breadth & thickness~~						
,, ~~Angle on ditto~~						
,, ~~Tie Plates~~						
,, ~~Flat of Deck, Material and thickness~~						
Bridge Deck Stringer Plate, ~~brdth & thickness~~						
,, ~~Angle on ditto~~						
,, ~~Tie Plates~~						
,, ~~Flat of Deck, Material and thickness~~						
Forecastle Deck Stringer Plate, ~~brdth & thknss~~						
,, ~~Angle on ditto~~						
,, ~~Tie Plates~~						
,, ~~Flat of Deck, Material and thickness~~						

* ~~If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.~~

PLATING.

	Inches in Ship.	16ths ~~or 20ths~~ in Ship.	Inches per Rule Or as	16ths ~~or 20ths~~ per Rule. Approved.
~~FLAT PLATE KEEL,~~ breadth and thickness				
,, ~~d'bling or incr'sed thckns, & lngth appl.~~				
PLATES in Garboard Strakes, brd'th & thickness	50	7	50	7
,, From Garboard to lower part of Bilges		6		6
State Thickness of Plating in way of Double Bottom.				
,, **Bilges,** number of Strakes and thickness	One	6	One	6
,, ~~Of doubling at Bilge, or increased thickness, and length applied~~				
,, ,, from up. part of Bilge to lr. edge of Sh'rstrake		6		6
,, **Sheerstrake,** breadth and thickness	49	9 8	49	9 8
,, ~~Of d'blng at Sh'stk. & lng. applied~~				
,, ~~Poop Sides~~				
,, Raised ~~Quarter~~ Deck Sides		5		5
,, ~~Bridge Sides~~				
,, ~~Forecastle Sides~~				
Lengths of Plating	168		126	

State clearly where plating is of alternate thicknesses—as distinguished from diminished thickness at end of vessel.

GLS162-0765(112)

Form No. 1 A—2000 -T. & S.—31-5-90.

ROBERT EDMUND TAYLOR & SON, Printers, 19, Old Street, Gosvell Road London.

10715 gls

Ceiling betwixt Decks, thickness and material 1½ Pine
" in hold do. do. 2" Pine

Number of Breasthooks Three
" Crutches Two

BULKHEADS. No. in Vessel 3 No. Reqd. by Rule 3

	Thickness.	Angles.	Spacing.	Height up.	Sngl. or Dbl. Frames.
W. T. Bulkheads	4/8	Vrtcl. 2½×⅜ Hrzntl. 2½×⅜	3a	Upper deck	Double
Partition	—	Vrtcl. Hrzntl.			
Longitudinal	—	Vrtcl.			

Are the outside Plates doubled two spaces of Frames in length? Yes

The **FRAMES** extend in one length from Keel to Gunwale Riveted through Plates with 5/8 in. Rivets, about 5 apart
The **REVERSED ANGLE** on floors and frames extend from Middle line to Bilge. Scalloped in Engine & Boiler space fore & aft
Bilge Keelson to Bilge Keelson.

RIVETING OF EDGES AND BUTTS OF SHELL PLATING AND BUTTS OF STRINGER PLATES, TIE PLATES, KEELSONS, &c.

Garboard, double riveted to Bar Keel ~~or Flat Plate Keel,~~ with rivets 1 single & 1 whole in. diameter, averaging 5" ins. from centre to centre.
Edges of Garboards and to upper part of Bilge, worked clencher, double riveted; with rivets ¾ - ⅝ in. diameter, averaging 3 - 2⅝ ins. from centre to centre.
Butts from Keel to turn of Bilge, worked carvel, treble ~~&~~ double riveted; treble for half lgth.; with rivets ¾ - ⅝ in. dia., averaging 3 - 2½ ins. from cr. to cr.
" " " " ~~overlapped for length, treble riveted for length, with rivets in. dia., averaging ins. from cr. to cr.~~
Butts of Bare Strakes **at Bilge** for ¾ length, treble riveted with Butt Straps 5/16 thicker than the plates they connect.
Edges from Bilge to Sheerstrake, worked clencher, ~~double or~~ single riveted; with rivets ⅝ in. diameter, averaging 2⅝ ins. from centre to centre.
Butts from Bilge to Sheerstrake, worked carvel, ~~treble or~~ double riveted; ~~treble for lgth.~~; with rivets ⅝ in. dia, averaging 2½ ins. from cr. to cr.
" " " " ~~overlapped for length, treble riveted for length, with rivets in. dia., averaging ins. from cr. to cr.~~
Edges of Sheerstrake, double ~~or single~~ riveted. **Butts of Sheerstrake,** treble riveted for whole length amidships
Butts of Main Stringer Plate, ~~treble~~ riveted for whole length amidships. **~~Single or Double Butt Straps~~ to Stringer Plate** for whole length.
~~**Butts of Inner Bottom Plating** riveted for length.~~ ~~**Butts of Centre Girder** riveted.~~
Breadth of edge laps of Shell Plating in double riveting 4½. **Breadth of edge laps of Shell Plating** in single riveting 2½
Butt Straps of Shell Plating breadth and thickness 14½ · 8 4/16 · 5/16 ~~**Butts, if Lapped, breadth of laps**~~
Butt Straps of Keelsons, Stringer and Tie Plates, treble ~~&~~ double riveted?
Manufacturer's name or trade mark of the Iron ~~or Steel (state process of manufacture of Steel)~~ used for Frames, Beams, Keelsons, Tie and Stringer Plates, Outside Plating, &c.? Clydebridge; Dorman & Long; Stockton Ir. & S. Co; West Stockton; Blyston.

State whether Rivets are of Iron or Steel. Iron

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? No
Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes

MASTS, SPARS, &c.

	Material.	Total Length	Diameter and Thickness. At Partners.	Heel.	Hounds.	Head.	No. of Plates in round.	Angles. Number.	Size.	Riveting. Seams.	Butts.
Lower Masts.... Fore	Pine	48.0	13	11½	10½	8	—	—	—	—	—
Main	Steel	29.0	11×5/16	11×5/16	8½×4/16	7×4/16	Two	—	—	Single	Double
Mizen	—										
Bowsprit	—										

Topmasts, Yards and Remainder of **Spars** Pine
Rigging, Material and Size, **Shrouds** Steel wire 2" **Stays** 3¾ × 2½
Sails. Bare Suit of Fore Sails, ~~and the following spare sails~~

EQUIPMENT Tonnage 142 **LETTER** — . **ANCHORS.**

Number of Certificate.		Weight, Ex. Stock Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs.	lbs	Test, per Certificate. Tons.	cwts.	qrs.	lbs.	Weight Req. by Rule Cwts.	qrs.	lbs.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
29932	1st Bower ..	4	3	4	1	0	13	7	5	0	0	4	2	0	Ordinary I.S.	I.S. Jones & Co.	Hetherton, 11½ May 1891
29931	2nd " ..	4	0	8	1	0	0	6	10	0	0	4	0	0	" "		D. C. Lewis.
29930	3rd " ..	2	2	6	0	2	17	5	2	2	0	2	2½	0	" "		
	Collective w'ight	11	1	18								11 10	2 0	0			
	Stream																
	Kedge																
	2nd Kedge ..																

If Patent state Name of Patentee.

CHAIN CABLES.

Number of Certificate.	Fathoms	Size.	Test per Certificate. Tons.	Weight of Chain Cable	Fathoms & Size. Per Rule.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
19707	75	15/16	15 8/16 . 23 7/16	34-1-7	75 · 15/16	Stud link	I.S. Jones & Co.	Hetherton 9½ May 1891 D. C. Lewis.
Iron Stream Chain or Steel Wire ...	—							
Towline if steel wire	—							

HAWSERS AND WARPS.

Material.	Fathoms	Size.	Fathoms & Size. Per Rule.
Towline Hemp	60	5½	60 · 5½
Hawser "	60	4	60 · 3½

Boats One long boat.
Pumps, Number One hand in hold and 1 in fore peak. Diameter of Barrel and Tail Pipe In hold 6" & 3", in fore peak 3" & 1½"
The Windlass is Emerson & Walker's Capstan —
Engine Room Skylights.—How constructed? Teak on high iron comings.
What arrangements for deadlights in bad weather? Teak shutters fitted with bulls eyes.
Coal Bunker Openings.—How constructed? Flat centre How are lids secured? Self locking Height above deck? Nil.
Number of **Scuppers,** and number and dimensions of **Freeing Ports,** &c. On each side, 3 scuppers, and 3 ports 18" × 12".

Cargo Hatchways.—How formed?—Of plates and angles fitted in the usual manner **Hatches,** if strong and efficient? Solid 2½"
State size **No. 1 Hatch** (Forward) 3'-0" × 3'-0" × 12" **No. 2 Hatch** 3'-6" × 3'-6" × 12" **No. 3 Hatch** — **No. 4 Hatch** —
Number of **Web Plates, Shifting Beams,** and **Fore** and **Afters** to each Hatch —

Bulwarks, height above deck and description 2'-6". Iron plating ⅜" Main Rail, material and size Bulb angle 6" × 3" × ⅜" with hollow rope outside 2½" × 1½"

The above is a correct description.
Builder's Signature, (here only.) Mackie & Thomson *Surveyor's Signature,* William D. Sharpe, Jo. Thomson.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Form No. 1 A.

10715 Gls

Order for Special Survey No. 2443
Date 6th Feb 1891
Order for Ordinary Survey No. —
Date —
No. 27 in builder's yard.

DATES of Surveys held while building as per Section 18.
1st. On the several parts of the frame, when in place, and before the plating was wrought: 1891: – Feb. 17, 21, March 4, 10, 27, April
2nd. On the plating during the process of riveting: 3, 6, 8, 18, 20, 21, 22, 23, 27, 30. May 2, 5, 8, 12, 13,
3rd. When the beams were in and fastened, and before the decks were laid: 25, 29.
4th. When the ship was complete, and before the plating was finally coated or cemented:
5th. After the ship was launched and equipped:
Total No. of Visits 22

State dates and initials of letters respecting this case: Secretary's 11th April 1891 M

General Remarks (State quality of workmanship, &c.) The workmanship and materials good

This vessel is an Iron Screw Steam Trawler and has been built in accordance with tracings as approved by the Committee and in general conformity with the Rules for the Class contemplated

Midship section of the vessel as built forwarded to London on the 30th May 1891.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. or Break 19 ft., Bridge Dk. — ft., F'castle 19 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) One deck One tier of Beams

Official No. 98739; Signal Letters

PARTICULARS OF WATER BALLAST.—
Double bottom, aft, length — and water capacity in tons —. Double bottom, forward, length — and water capacity in tons —
Double bottom, under engines and boilers, length — and water capacity in tons —. If under Engines only, or Boilers only, state which —
Double bottom, constructed on the cellular system, length — and water capacity in tons —
Fore peak tank, water capacity in tons —. After peak tank, water capacity in tons —.
Midship deep tank, length — and water capacity in tons —. Other tanks, if fitted, length — and water capacity in tons —
The above have — been tested as required by the Rules. —
(If necessary, furnish further information by sketch.)
How are the surfaces preserved from oxidation? Inside Cement & Paint Outside Paint

FREEBOARD assigned by the Committee, as per Secretary's Letter, dated —

In Summer	ft.	ins.	To top of Wood, Iron or Steel Upper Deck.
In Winter	ft.	ins.	
For Winter in North Atlantic	ft.	ins.	
Fresh Water above the centre of disc		ins.	

State if marked on Vessel's sides in accordance with Notice No. 572

The amount of Entry Fee .... £ 1 : – : – is received by me, 3/6/1891
Special ... £ 4 : 2 : –
Certificate* £ – : – : –
Travelling Expenses, if any £ – : – : –

*Certificate to be sent to Glasgow

I am of opinion this Vessel should be Classed ✠ 100. A.1. Steam Trawler

William L. Sharpe, Jo. Thomson.
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI 5 JUN 1891

Character assigned

+ L. W. B. 5/91 100 A 1 Steam Trawler 1 Deck

L.A. & C.P.

It is submitted that this vessel appears eligible to be classed 100 A1 "Steam Trawler", as recommended. 1 Dk.

Reference should be made to any correspondence connected with the case.

The Surveyors are requested not to write on or below the space for Committee's Minute.

GLS162-0165 (2/2)