

for 2 Dks., R.Q.Dk.,  
and Pt. Awng. Dk.

# IRON OR STEEL STEAMER.

No. 6433

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

Received at London Office, *3 NOV. 1898*

Date of completion of Report *2<sup>nd</sup> November 1898*

Port of *Dundee*

Date, First Survey *7<sup>th</sup> March*

Last Survey *28<sup>th</sup> October*

1898

Survey held at *Dundee*  
On the *Steel Screw Steamer TAGUS*

Rig *Schooner*

Master *G. W. Muir*

Year of appointment *1898*

Built at *Dundee*

When built *1898* Launched *28<sup>th</sup> Sept*

By whom built *Caledon & Co. Eng. Co.*

Owners *F. Leyland & Co. Lim<sup>d</sup>*

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

Residence *Liverpool*

Port belonging to *Liverpool*

TONNAGE under  
Tonnage Deck *812.90*  
Do. of Poop *20.52*  
Do. of Raised Qr. *25.26*  
Do. Break. *26.21*  
Do. of Bridge House *7.16*  
Tonnage on Deck *24.27*  
Tonnage on Deck *937.02*  
Tonnage on Deck *58.80*  
Tonnage on Deck *24.27*  
Tonnage on Deck *853.95*  
Tonnage on Deck *352.96*  
Tonnage on Deck *16.35*  
Register Tonnage *508.91*  
as cut on Beam ..

ONE OR TWO DECKED VESSEL.

CLASS *\*100A1 "Steel"*

Half Breadth (moulded) *14.25*  
Depth from upper part of Keel to top of Main Deck Bms. *19.16*  
Girth of Half Midship Frame (as per Rule) *30.12*  
1st Number *63.53*  
Length on deck from after part of stem to fore part of stern post *218.81*  
2nd Number *13901*  
Proportions—Breadths to Length *7.6*  
Depths to Length—Main Deck to top of Keel *11.4*  
Destined Voyage *✓*

LENGTH on Deck as per Rule *218* *9 3/4* FEET. INCHES. BREADTH—Moulded *28* *6* FEET. INCHES. DEPTH, ACTUAL—Top of Floors to top of Main Deck Beams *16* *4* FEET. INCHES. No. of Decks with Flat laid *two* No. of Tiers of Beams *two*

Dimensions of Ship per Register, Length, *220* breadth, *28.75* depth, *16.3* Moulded Depth, *18* ft. *7* ins. Round of Beam, Actual *7* ins.

FRAMING.				FORGINGS AND CASTINGS.			
Inches in Ship.	Inches in Ship.	Inches 20ths in Ship.	Inches per Rule Or as Appro.	Inches in Ship.	Inches in Ship.	Inches 20ths in Ship.	Inches per Rule Or as Appro.
FRAME, Angles, <i>2</i> <i>1</i> <i>1</i> Bars, for $\frac{3}{4}$ length amidships				KEEL, Bar or Side Plates depth and thickness <i>2 1/2" x 7"</i>			
Do. for $\frac{1}{2}$ at each end				STEM, moulding and thickness <i>7" x 2 1/4"</i>			
Do. in way of Double Bottoms at Solid Floors..				STERN-POST for Rudder do. do. <i>7 1/2" x 4 3/4"</i>			
" " " at intermdt. Bkts.				" for Propeller <i>7 1/2" x 4 3/4"</i>			
Distance of Frames from moulding edge to moulding edge, all fore and aft				MAIN PIECE of Rudder, diameter at head... <i>5 1/2"</i>			
REVERSED FRAME, Angles <i>3</i> <i>3</i> <i>6</i>				do. at heel <i>3"</i>			
DEEP FRAMING, depth of girder				RUDDER, how constructed <i>Iron frame 1/2" Single plate</i>			
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{3}{4}$ 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 floors, Through Plate, or Intercoastal Plate			
" depth at $\frac{3}{4}$ the half breadth, as per Rule				" Rider Plate			
" height extended at the Bilges				" Bulb Plate to Intercoastal Keelson			
FLOORS & BRACKETS, in Cell Dble Bottoms				" Horizontal Plates on Floors			
" Distance apart				" Angles			
CENTRE GIRDER, in Double Bottom, depth and thickness				SIDE KEELSON, Angles <i>Double</i>			
" Angles, Top				" Bulb or Plate above floors for lng.			
" Bottom				" Intercoastal Plate for <i>half</i> length			
SIDE GIRDERS, number on each side & thickness				" Attached to outside plating with Angle..			
" Angles				BILGE KEELSON, Angles <i>Double</i>			
MARGIN PLATE, depth (exclusive of flange) and thickness				" Bulb or Plate above floors for $\frac{1}{2}$ len.			
" Angles to Outside Plating				" Intercoastal Plate for length			
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake				" Attached to outside plating with Angle..			
" thickness in Engine and Boiler space				BILGE STRINGER Angles <i>Double</i>			
" Remainder in Holds				" Bulb Plate for length			
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				" Intercoastal Plate for length			
" Angles on Upper Edge				" Attached to outside plating with Angle			
" Average space				SIDE STRINGER Angles			
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb				" Bulb or Intercoastal Plate for lng.			
" Angles on Upper Edge				" Attached to outside plating with Angle			
" Average space				Main and Raised Quarter Deck Stringer Plate, breadth and thickness			
BEAMS, Hold, Plate or Tee Bulb				" Angle on ditto			
" Angles on Upper Edge				" Tie Plates fore & aft, outside Hatchways			
" Average space				" Diagonal Tie Plates on Bms., No. of Pairs			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb				" Main Dk* Iron <i>Steel</i> for <i>full</i> lng.			
" Angles on Upper Edge				" R. Q. Dk* Iron or Steel for lng.			
" Average space				" Wood Deck, Material & thickness			
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle, Plate or Tee Bulb				Lower Deck Stringer Plate, breadth and thickness			
" Angles on Upper Edge				" Angles on ditto, No. <i>2</i>			
" Average space				" Tie Plates, outside Hatchways			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb				" Deck* Material and thickness <i>steel</i>			
" Angles on Upper Edge				Hold Stringer Plate <i>2 1/2" x 3 1/2"</i>			
" Average space				" Angles on ditto, No. <i>4</i>			
PILLARS, In 'tween Decks, Size and Spacing				Poop Deck Stringer Plate, breadth & thickness			
" Hold				" Angle on ditto			
" Quarter, 'tween Dks.,				" Tie Plates			
" in Hold				" Deck, Material and thickness			
WEB FRAMES, In Fore Body, No. and Spacing				Bridge Deck Stringer Plate, brdth & thickness			
" Brdth. & Thickness				" Angle on ditto			
" No. of Side Stringers				" Tie Plates			
WEB FRAMES, In E. & B. Space, No. & Spacing				" Deck, Material and thickness <i>y. Pine</i>			
" Brdth. & Thickness				Forecastle Deck Stringer Plate, brdth & thickness			
" No. of Side Stringers				" Angle on ditto			
" Size of Angles or Tee Bars to Web Frames				" Tie Plates			
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness				" Deck, Material and thickness <i>y. Pine</i>			



PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.			BUTTS.			IF LAPPED.						
	AMIDSHIP.		FORWARD.		AFT.	AMIDSHIP.	Single or Double.	Breadth of Lap.	Diam.	Spacing or to cr.	RIVETS.	Diam.	Spacing or to cr.	STRAPS.	IF LAPPED.	Breadth.	Thick-ness.	Breadth.	For what Length.
	Breadth.	Thickness.	Thickness.	Thickness.															
FLAT PLATE KEEL.....	34	12	10	10		34	12	Double	5 1/2	3/8	4	Treble	1	3 1/2	19	14			
(If Bar Keel, state Riveting)																			
GARBOARD OR A Strake...	54	10	9	9		54	10	"	4 1/2	3/4	3 1/2	"	3/8	3 1/2					
B "	46 1/2	9	8	8		46 1/2	9	"	"	"	"	"	3/8	3 1/2					
C "	54 1/2	10	9	9		54 1/2	10	"	"	"	"	"	3/8	3 1/2					
D "	46 1/2	10	8	8		46 1/2	9	"	"	"	"	"	"	"					
E "	54 1/2	10	9	9		54 1/2	10	"	"	"	"	"	"	"					
F "	46 1/2	9	8	8		46 1/2	9	"	"	"	"	"	3/4	2 1/2					
G "	54 1/2	10	9	9		54 1/2	10	"	5 1/2	3/8	4	"	3/8	3 1/2					
Sheer H "	37	12	9	9		37	12	Single	3	3/4	3 1/2	"	"	"					
J "	38	6				38	6	"	2 1/2	3/8	2 1/2	Double	3/8	2 1/2					
K "	44 1/2	6				44 1/2	6	"	"	"	"	"	"	"					
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.....	8 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. *Plates: - Clydebridge Steel Co. Summerlee & Gifford, S.S. & Co. Steel Co. of Scotland Bars: - Steel Co. of Scotland, Connell & Co. Museum Station Steel*

Has the Steel been tested as required by the Rules *yes*

Main Stringer Plate { Butts, treble riveted for *half* length amidship. Straps, single, double or overlapped for *full* length amidship

Butts of Bilge & Side Stringers, and Tie Plates, treble *or* double riveted? *yes*

Inner Bottom Plating, riveting of Edges *2 1/2* & Single Butts *Double Lap*

Centre Girder Butts, *Double* riveted. Keelson Butts, *Double* riveted.

Frames, riveted through Plates with *7/8* in. Rivets, about *5 1/2* apart.

Rivets, state whether of Iron or Steel *iron*

FRAMES extend in one length from *Keel or Margin plate* to *Main Bridge and forecastle decks*

REVERSED FRAMES on floors and frames extend from *to top of lower deck stringer bar and main deck alternately; Single*

Reverse frames *5 x 9 1/2 x 9/16* in double bottom in *8 & 13* space.

MASTS, SPARS, &c.										RIGGING.									
LOWER MASTS....	Material.	Total length.	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		Seams.	Butts.	Number.	Size.	Seams.	Butts.	Number.	Size.	Seams.	Butts.
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.										
Fore .....	Steel	59-3"	16-1/2	13-1/2	10-1/2	✓	Two	✓	✓	Single	Treble	✓	✓	✓	✓	✓	✓	✓	✓
Main .....	3"	48-9"	16-1/2	15-1/2	10-1/2	✓	"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mizen.....																			
Bowsprit	none																		
Topmasts, Yards and Remainder of Spars	Wood																		
Rigging, Material and Size, Shrouds	2 1/4 Steel Wire																		
Stays	3" Steel Wire																		
Sails.	one Suit of four																		
Sails and the following spare sails	none																		

EQUIPMENT No. *14790* LETTER *m* TONNAGE FOR TRAWLERS U.Dk. ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 22.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.		
41039	1st Bower ..	23	0	3	23	0	3	23	14	1	14	22	2	0	Hall's Patent	H. Hingley & Son, 24-8-98
41041	2nd ..	22	3	8	22	3	8	22	0	2	14	22	2	0	"	"
41040	3rd ..	19	1	23	19	1	23	20	6	1	0	19	0	0	"	"
	Collective weight	65	1	6	65	1	6	65	21	1	6	64	0	0	"	"
41090	Stream .....	6	3	7	6	3	7	9	2	2	0	6	2	0	2m Stock	H. Hingley & Son, 24-8-98
41086	Kedge .....	3	1	14	3	1	14	5	16	2	7	3	1	0	"	"

CHAIN CABLES.										HAWERS AND WARPS.									
Number of Certificate.	Fathoms.	Size.	Test per Certificate.	WEIGHT OF CHAIN CABLE.			Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Test per Certificate.	Fathoms.	Size.	Test per Certificate.	Fathoms.	Size.	Test per Certificate.
				Supplied.	Per Table 22.	Per Table 22.													
28830	105	1 1/2	55-12-0	111-3-0	222-1-11	210-1-11	210-1-11	H. Hingley & Son, 25-8-98	H. Hingley & Son, 25-8-98	TOWLINE	90	3 1/2	22	90-7 1/2	90-7 1/2	22	90-7 1/2	90-7 1/2	22
28845	105	1 1/2	55-12-0	111-3-0	222-1-11	210-1-11	210-1-11	H. Hingley & Son, 25-8-98	H. Hingley & Son, 25-8-98	HAWSER	90	3 1/2	22	90-7 1/2	90-7 1/2	22	90-7 1/2	90-7 1/2	22
Iron Stream Chain or Steel Wire ...	60	3 1/2	26	119-0-5	60-3 1/2	60-3 1/2	60-3 1/2	H. Hingley & Son, 25-8-98	H. Hingley & Son, 25-8-98	WARP	90	3 1/2	22	90-7 1/2	90-7 1/2	22	90-7 1/2	90-7 1/2	22

Boats *3*

Pumps, Number *four* Diameter of Barrel *3 = 6"* State whether they are in efficient working order *yes*

Windlass is *Emerson Walkers iron steam windlass and Capstan*

Engine Room Skylights.—How constructed? *Steel plates and angles*

What arrangements for deadlights in bad weather? *Strong glass Bull's eyes*

Coal Bunker Openings.—How constructed? *plates & angles* How are lids secured? *hatches in* Height above deck? *36"*

Number of Scuppers, and number and dimensions of Freeing Ports, &c. *6 Scuppers; 4 Ports 26x18 & 4 Ports 24x18 on each side*

Ceiling in Holds, thickness and material *2 1/2" W. pine* Ceiling 'tween Decks, thickness and material *6x2 W. pine*

Cargo Hatchways.—How formed? *plates with angles* Hatches.—If strong and efficient? *yes 3 solid*

State size No. 1 Hatch (Forward) *11-6" x 9'-0"* No. 2 Hatch *19'-2" x 11'-0"* No. 3 Hatch *11'-6" x 9'-0"* No. 4 Hatch *✓*

Number of Web Plates, Shifting Beams, and Fore and Afters to each Hatch *21 = one fore & after, 22 = one web - 3 fore & after, 23 = one fore & after*

No. of Breasthooks *3* No. of Crutches *one & deep floor*

Bulwarks, height above deck and description *4' 4 1/2" x 1/2" steel plates* Main Rail, material and size *6 1/2 x 3 x 1/2 bull angle*

The above is a correct description.

Builder's Signature *Grant Barclay* Surveyor's Signature *Wm Morrison* 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). *Secretary's letters*  
*22.1.98; 22.3.98, 13.4.98, 6.5.98 2. 23.2.98, 23.3.98, 24.4.98, 28.5.98*

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*

Have all the upper and weather decks been tested as required by the Rules (Sec. 23, par. 24)? *yes* State results of tests *satisfactory*

Have all the gutterways been tested as required by the Rules (Sec. 23, par. 25)? *yes* State results of tests *satisfactory*

General Remarks (State quality of workmanship, &c.)  
*This vessel has been built under Special Survey in accordance with the approved plans and Secretary's letters referred to, and in general conformity with the Rules for the class contemplated.*  
*The steel used in the construction of this vessel has been tested by the Society's surveyors, and the materials and workmanship are sound and good.*

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 *✓* ft., Bridge Dk. *78-5 1/2* ft., F'castle *33-5* 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). *28ths (12m - 1 stl)*

Official No. ....; Signal Letters .....

How are the surfaces preserved from oxidation? Inside *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.	Water Capacity.	Where fitted.	*Length.	Water Capacity.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,	<i>34.5</i>	<i>56</i>	After peak tank,		
Double bottom, if under Engines only,			Midship deep tank,		
Double bottom, if under Boilers only,			Other tanks, if fitted,		
Double bottom, forward,			(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. *626*

Date *2<sup>nd</sup> March, 1898*

No. *142* in builder's yard

DATES OF SURVEYS held while building  
*March 7-23-30; April 5-6-17; May 2-4-6-11-16-19-21-24-30*  
*June 1-2-8-10-14-16-18-23-27-30; July 6-20; Aug 1-2-5-8-10-16-17-24-31*  
*September 7-14-17-20-22-27-29*  
*October 3-5-7-11-13-17-21-23-27-28*

Total No. of Visits *53*

The amount of Entry Fee ..... £ *3 : 0 : 0* Fees applied for, *2/11/1898*

Special ..... £ *42 : 14 : 0* Received by me, *9.11.1898*

Certificate ..... £ .....  
 Travelling Expenses, if any £ .....  
 State whether the Vessel has been built under Special Survey *yes*  
 I am of opinion this Vessel should be Classed *100A1 "Steel"*  
 With, or without Freeboard, as condition of Class

\* Certificate to be sent to *London Office*

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

Committee's Minute *FRI, 4 NOV 1898*

Character assigned *100A1 Steel*

*+ 2mc 10, 98* *20Ks (12m, 1 stl)*

*Engine*

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