

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

IRON OR STEEL STEAMER.

No. 22580

PHI. 5 JAN 1906

RECEIVED

State of Report is also sent on the Machinery of the Vessel. *Yes*

Received at London Office.

Date of completion of Report *1st January 1906* Port of *Sunderland*

Date, First Survey *1st November 1905* Last Survey *3rd January 1906*

Survey held at *Sunderland*
On the *Steel Screw Steamer "NEEDWOOD"*

Rig *Schooner*

TONNAGE under
Tonnage Deck... *1757.90*
Do. of Poop... *54.07*
Do. of Raised Q...
Dk. or Break...
Do. of Bridge House (SIDE) *16.62*
Do. of Forecastle... *30.16*
Do. of Houses on Deck... *13.46*
Do. of excess of Hatchways... *8.56*
Do. above Crown of... *104.87*
Engine Room... *1984.63*
Gross Tonnage...
Less Crew Space... *59.10*
Less above Crown of...
Engine Room...
TONNAGE FOR FEES... *1925.53*
Less Engine Room... *635.08*
Less Navigation Spaces... *47.09* *65.2.17*

ONE OR TWO DECKED VESSEL.

CLASS *100 A.1.*

FEET.

Half Breadth (moulded) *19.91*
Depth from upper part of Keel to top of Main Deck Bms. *21.35*
(with the normal round up of beam)
Girth of Half Midship Frame (as per Rule) *38.72*
1st Number *79.98*
Length on deck from after part of stem to fore part of stern post *277.0*
2nd Number *22154*
Proportions—Breadths to Length *6.95*
Depths to Length—Main Deck to top of Keel *12.97*

Master *David Jones*

Year of appointment *(1) As master in service of owner of present vessel: 1892 (2) As master of this vessel: 1905*

Built at *Sunderland*

When built *1905-6* Launched *11th Nov. 05.*

By whom built *Osbournes Graham & Co.*

Owners *W. France Ferriwick & Co. Ltd.*

Managers

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

Residence *London.*

Port belonging to *London.*

Surveyed while Building, Afloat, or in Dry Dock & in dry dock

Register Tonnage
as out on Beam... *1243.36*

LENGTH on Deck as per Rule... *277* Feet. *0* Inches. BREADTH—Moulded... *39* Feet. *10* Inches. DEPTH, ACTUAL—Top of Floors to top of Main Deck Beams... *18* Feet. *1 1/2* Inches. No. of Decks with Flat laid *One* No. of Tiers of Beams *One*

Dimensions of Ship per Register, Length, *279.5* breadth, *40.15* depth, *18.15* Moulded Depth, *20* ft. *6* ins. Round of Beam, Actual *10* ins.

FRAMING.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
FRAME, Angles, <i>7</i> , <i>E</i> or <i>L</i> Bars, for $\frac{1}{2}$ length amidships. (UN. FOR. P. 6x3x12 R.R.)	6	3	11	6	3	11
Do. for $\frac{1}{2}$ at each end. (PEAK. 5x3x12 R.R.)	6	3	10	6	3	10
Do. in way of Double Bottoms at Solid Floors.	3	3	8	3	3	8
" " " at intermdt. Bkts.	5	3	8	5	3	8
Spacing of Frames from centre to centre	24	-	-	24	-	-
REVERSED FRAME, Angles	3 1/2	3	8	3 1/2	3	8
DEEP FRAMING, depth of girder	6	-	-	6	-	-
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships	-	-	-	-	-	-
" " in way of Engines and Boilers	-	-	-	-	-	-
" " thickness at the ends of vessel	-	-	-	-	-	-
" " depth at $\frac{1}{2}$ the half breadth, as per Rule	-	-	-	-	-	-
" " height extended at the Bilges	-	-	-	-	-	-
FLOORS & BRACKETS, in Cell Dble Bottoms	38	-	7	38	-	7
" " " state if flanged (top & bottom)	no	-	-	-	-	-
" " " Spacing	48	-	-	48	-	-
CENTRE GIRDER, in Double Bottom, depth and thickness	38	-	10	38	-	10
" " " Angles, Top	4	4	9	4	4	9
" " " Bottom	6	4	9	6	4	9
SIDE GIRDERS, number on each side & thickness	Three	7	Three	7	-	-
" " " state if flanged (top & bottom)	no	-	-	-	-	-
" " " Angles	3 1/2	3 1/2	7	3 1/2	3 1/2	7
MARGIN PLATE, depth (exclusive of flange) and thickness	28	-	8	28	-	8
" " " Angles to Outside Plating	3 1/2	3 1/2	8	3 1/2	3 1/2	8
" " " Floors	3 1/2	3 1/2	7	3 1/2	3 1/2	7
" " " Height of Floors at the Bilges	48	-	-	48	-	-
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	36	-	9	36	-	9
" " " thickness in Engine and Boiler space	-	9x	12	-	9x	12
" " " Remainder in Holds	-	-	9	-	-	9
BEAMS, Main and Raised Quarter Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	7	3	9	7	3	9
" " " Angles on Upper Edge	-	-	-	-	-	-
" " " Spacing	24	-	-	24	-	-
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	-	-	-	-	-	-
" " " Angles on Upper Edge	-	-	-	-	-	-
" " " Spacing	-	-	-	-	-	-
BEAMS, Hold, Plate or Tee Bulb	-	-	-	-	-	-
" " " Angles on Upper Edge	-	-	-	-	-	-
" " " Spacing	-	-	-	-	-	-
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	7	3	9	7	3	9
" " " Angles on Upper Edge	-	-	-	-	-	-
" " " Spacing	48	-	-	48	-	-
BEAMS, Bridge or Pt. Awng. Deck, Angle, Bulb Angle, Plate or Tee Bulb	6	3	8	6	3	8
" " " Angles on Upper Edge	-	-	-	-	-	-
" " " Spacing	24	-	-	24	-	-
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb	8	3	10	8	3	10
" " " Angles on Upper Edge	-	-	-	-	-	-
" " " Spacing	48	-	-	48	-	-
PILLARS, In 'tween Decks, Size and Spacing	-	-	-	-	-	-
" " " Hold	4 1/8 to 3	48	4 1/8 to 3	48	-	-
" " " Quarter, 'tween Dks., " "	-	-	-	-	-	-
" " " in Hold	-	-	-	-	-	-
WEB FRAMES, In Fore Body, No. and Spacing	nine	5 spaces of frames	-	-	-	-
" " " Brdth. & Thickness	18	-	8	18	-	8
" " " No. of Side Stringers	Two	18	8	Two	18	8
WEB FRAMES, In E. & B. Space, No. & Spacing	Three	5 spaces of frames	-	-	-	-
" " " Brdth. & Thickness	18	-	8	18	-	8
WEB FRAMES, In After Body, No. and Spacing	nine	5 spaces of frames	-	-	-	-
" " " Brdth. & Thickness	18	-	8	18	-	8
" " " No. of Side Stringers	Two	18	8	Two	18	8
" " " Size of Angles or Tee Bars to Web Frames	3 1/2	3	8	3 1/2	3	8
BRACKET PLATES to Stringers between Web Frames, Depth and Thickness	Angle bar fitted underneath	-	-	-	-	-

FORGINGS AND CASTINGS.

	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
KEEL, Bar or Side Plates depth and thickness	Flat plate	heel	-	-	-	-
STEM, moulding and thickness	10x2 1/2	10x2 1/2	-	-	-	-
STERN-POST for Rudder do. do.	10x5 1/2	10x5 1/2	-	-	-	-
" " for Propeller	10x5 1/2	10x5 1/2	-	-	-	-
MAIN PIECE of Rudder, diameter at head	7 3/4	7 3/4	-	-	-	-
do. at heel	5 3/4	5 3/4	-	-	-	-
RUDDER, how constructed	Single plate	-	-	-	-	-
Can the Rudder be unshipped afloat?	yes	-	-	-	-	-
KEELSONS AND STRINGERS.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	Cellular double	-	-	-	-	-
" " Rider Plate	Bottom with floor	-	-	-	-	-
" " Bulb Plate to Intercoastal Keelson	plate or alternate	-	-	-	-	-
" " Horizontal Plates on Floors	frames and three	-	-	-	-	-
" " Angles	side girders	-	-	-	-	-
SIDE KEELSON, Angles	-	-	-	-	-	-
" " Bulb or Plate above floors for	Ing.	-	-	-	-	-
" " Intercoastal Plate for	length	-	-	-	-	-
" " Attached to outside plating with Angle	-	-	-	-	-	-
BULGE KEELSON, Angles	-	-	-	-	-	-
" " Bulb or Plate above floors for	Ing.	-	-	-	-	-
" " Intercoastal Plate for	length	-	-	-	-	-
" " Attached to outside plating with Angle	-	-	-	-	-	-
BILGE STRINGER Angles	-	-	-	-	-	-
" " Bulb Plate for	length	-	-	-	-	-
" " Intercoastal Plate for	length	-	-	-	-	-
" " Attached to outside plating with Angle	-	-	-	-	-	-
SIDE STRINGER Angles	-	-	-	-	-	-
" " Bulb or Intercoastal Plate for	Ing.	-	-	-	-	-
" " Attached to outside plating with Angle	-	-	-	-	-	-

Main and Raised Quarter Deck Stringer Plate, breadth and thickness	76	13	76	13
" " Angle on ditto	39	10	39	10
" " Tie Plates, outside Hatchways	5x5x12	5x5x12	-	-
" " Diagonal Tie Plates on Bms., No. of Pairs	Stringer plate increased	-	-	-
" " Main Dk. Iron or Steel for full Ing.	-	7	-	7
" " R. Q. Dk. Iron or Steel for Ing.	-	-	-	-
" " Wood Deck, Material & thickness	-	-	-	-
Lower Deck Stringer Plate, breadth and thickness	-	-	-	-
" " Angles on ditto, No.	-	-	-	-
" " Tie Plates, outside Hatchways	-	-	-	-
" " Deck Material and thickness	-	-	-	-
Hold Stringer Plate	-	-	-	-
" " Angles on ditto, No.	-	-	-	-
Poop Deck Stringer Plate, breadth & thickness	26	6	26	6
" " Angle on ditto	3x3x6	3x3x6	-	-
" " Tie Plates	12 1/2	7	12 1/2	7
" " Deck, Material and thickness	Pitch pine 3 inches thick	-	-	-
Bridge or Pt. Awng. Deck Stringer Plate, breadth and thickness	29	8	29	8
" " Angle on ditto	3x3x8	3x3x8	-	-
" " Tie Plates	-	-	-	-
" " Deck, Material and thickness	Steel	6	-	6
Forecastle Deck Stringer Plate, brdth & thcknss	26	6	26	6
" " Angle on ditto	3x3x6	3x3x6	-	-
" " Tie Plates	-	-	-	-
" " Deck, Material and thickness	Steel 1/20 sheathed with 2 1/2 pine	-	-	-

BULKHEADS.

BULKHEADS.	Number.		Thickness.	STIFFENERS.					Single or Double Frames.	Height up
	In Vessel.	Per Rule.		Horizontal.		Vertical.				
				Size.	Spacing	Size.	Spacing			
			1/20th.	Inches.	Inches.	Inches.	Inches.			
W.T. BULKHEADS	4	4	7-6	Semi-box Bldg		7x3x9		30	8 Bk. Upper	
PARTITION "	-	-	-	-		-		-	-	
LONGITUDINAL,,	-	-	-	-		-		-	-	
Are the outside Plates doubled two spaces of				Frames in length ? <i>Diamond plates</i>						
Are the Sluice Valves and Watertight Doors				in efficient working order ? <i>yes</i>						

PLATING. RIVETING. STRAKES. AS IN SHIP. PER RULE OR AS APPROVED. EDGES. BUTTS. 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.?

Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with the case). (19) 24 October 1904 and 17 April 1905 27 April 1905. Workmanship. Are the butts of plating planed or otherwise fitted? planed and overlapped. Is the riveted work properly closed? yes.