

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office **FRI JAN 12 1917**

Date of completion of report **4th of January 1916** Port of **Rotterdam**
 Survey held at **H. J. Amelsch** Date, First Survey **31/1-16** Last Survey **28/12-1916**
 On the (State if Single, Twin, or Triple Screw) **Steel Steamer "Froland"** Rig **Vehmann**

TONNAGE under
 Tonnage Deck...
 Do. between Tonnage Dk. and 3rd and 4th Dk.
 Total under Upper Dk. **1132.88**
 Do. of Poop **47.55**
 Do. of R.Q.Dk. **68.06**
 Do. of Bridge House **8.34**
 Do. of Forecastle **40.01**
 Do. of excess of Hatchways **40.01**
 Do. above Crown of Engine Room **1296.84**
 Gross Tonnage **1296.84**
 Less Crew Space **70.26**
 Less above Crown of Engine Room **1226.58**
 Tonnage for Fees **1226.58**
 Less Engine Room **414.98**
 Less Navigation Spaces **33.12**
 Peak Tank **10.32**
 Register Tonnage **768.16**
 as cut on Beam

CLASS **100 A.1.** **FEET.**
 Breadth (greatest moulded) **36.5"**
 Depth, at middle of length from top of keel to top of upper deck beams at side **18'0"**
 Transverse Number **54-3"**
 Length on deck from fore part of stem to after part of stern post **236'6"**
 Longitudinal Number **12830-**
 Depth "d," at middle of length (See Secs. 2 & 13) **15'2"**
 Proportions—Depths to Length—Upper Deck Beam at side to top of keel **13-14**
 " " Long Bridge Deck Beam at side to top of keel
 Destined Voyage **Nethil** If Surveyed while Building, Afloat, or in Dry Dock **Building**

Master **Olaf Magnus Jensen**
 Year of appointment **1916**
 Built at **H. J. Amelsch**
 When built **1916** Launched **25/9-16**
 By whom built **Lonker & Sians**
 Owners **Pharmaceutical Co. Christofferson**
 Managers **Brevik**
 Residence **Brevik**
 Port belonging to **Brevik**

LENGTH on Deck as per Rule **236** **BREADTH** Moulded **36** **DEPTH, ACTUAL**—Top of Floors to top of Upper Dk. Beams **15'11"**
 Do. do. do. do. Second Dk. Beams **15'11"**
 Moulded depth, ft. **25** ins. **5** To Bridge Dk. Round of Upper Dk. Beam, Actual **9** ins.
 Moulded depth, ft. **18** ins. **5** To Upper Dk. Dk. Beam, Actual **9** ins.

FRAMING.				PILLARS.			
FRAME, Angles, or Bars amidships	Inches in Ship	Inches in Ship	Inches in Ship	PILLARS, In 'tween Deck, size and spacing	Inches in Ship	Inches in Ship	Inches in Ship
Do. in peaks	180	45	11	" " Hold	25/8	46	25/8
Do. in way of Double Bottoms at Solid Floors	15 1/2	3	40	" " Quarter 'tween Dks.,	25/8	46	25/8
" " at intermdt. Bkts.	150	40	9 1/2	" " in Hold	25/8	46	25/8
Spacing of Frames from centre to centre amidships	23						
" " from 1/2 length to Collision bulkhead	23						
" " in peaks	23						
REVERSED FRAME, Angles				KEELSONS & STRINGERS.			
Do. in way of Double Bottoms at Solid Floors	3	3	32	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
" " at intermdt. Bkts.	150	40	9 1/2	" " Rider Plate			
FRAMING, depth of girder	180	45	11	" " Flat Plate Keel Angles			
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	15 1/2	3	40	" " Horizontal Plates on Floors			
" " in way of Engine and Boiler Spaces	150	40	9 1/2	" " Angles or Bulb Angles			
" " thickness at the ends of vessel	23			SIDE KEELSONS, Number			
" " depth at 1/2 the half breadth, as per Rule	23			" " Angles or Bulb Angles			
" " height extended at the Bilges	23			" " Plate above floors, for length			
FLOORS in Cell. Double Bottoms	34	32	34	" " Intercoastal Plate, for length			
" " state if flanged (top & bottom)	34	32	34	" " Attached to outside Plating with Angle			
" " Spacing of Solid floors	23			BILGE KEELSON, Angles			
CENTRE GIRDER, in Dbl. bottom, dpth. & thknss.	34	42	36	" " Intercoastal Plate for length			
" " Angles, Top	3	3	40	" " Attached to outside Plating with Angle			
" " Bottom	4	4	48	SIDE STRINGERS, Number			
" " to Floors	3	3	32	" " Angle			
" " Brackets at intermdt. frmg., wdth & thknss	30	32	30	" " Intercoastal Plate, for length			
SIDE GIRDERS, number on each side & thickness	One	30	One	" " Attached to outside plating with Angle			
" " state if flanged (top and bottom)	3	3	32				
" " Angles (top and bottom)	2 1/2	2 1/2	32	Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)	45	40	45
" " to Floors	2 1/2	2 1/2	32	" " br'dth & thickness (in way of Bridge)	45	40	45
MARGIN PLATE, depth (exclusive of flange) and thickness	32	36	30	" " Angle (clear of Bridge)	4x4	56	4x4
" " Angle to Outside Plating	3 1/2	3 1/2	36	" " Plate at sides of Hatchways	26	26	26
" " Floors	3	3	32	" " Deck * Iron or Steel, for length			
" " Brackets at intermdt. frmg., wdth & thknss	45	32	45	" " Thickness (clear of Bridge)	30	30	30
" " Height of Outside Brackets above at bilge	14	14	14	" " (in way of Bridge)	30	30	30
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	48	38	32	Wood Deck. Material & thickness			
" " in Engine and Boiler space	36	41	36	Second Deck Stringer Plate, br'dth & thickness			
" " Remainder in Holds	32	30	32	" " Angles on ditto, No.			
BEAMS, Upper Deck, Single Angle, Bulb, Angle, Plate, Tee Bulb, or Channel	170	45	9 1/2	" " Tie Plates outside Hatchways			
" " In way of Long Bridge	170	45	9	" " Deck * Iron or Steel, for length			
" " Spacing	23			" " Wood Deck. Material & thickness			
BEAMS, Second Deck, Single Angle, Bulb, Angle, Plate, Tee Bulb, or Channel	170	45	9 1/2	Third Deck Stringer Plate, br'dth & thickness			
" " Spacing	23			" " Angles on ditto, No.			
BEAMS, Third and Fourth Deck, Single Angle, Bulb, Angle, Plate, Tee Bulb, or Channel	170	45	9 1/2	" " Tie Plates, outside Hatchways			
" " Angles on upper edge	23			" " Deck * Material and thickness			
" " Spacing	23			Fourth and Fifth Deck Stringer Plate, br'dth & thickness			
BEAMS, Poop Deck, Angle, Bulb, Angle, Plate, Tee Bulb, or Channel	5	3	30	" " Angles on ditto, No.			
" " Angles on upper edge	23			" " Tie Plates outside Hatchways			
" " Spacing	23			" " Deck. Material & thickness			
BEAMS, Bridge Deck, Angle, Bulb, Angle, Plate, Tee Bulb, or Channel	5 1/2	3	34	Poop Deck Stringer Plate, breadth & thickness	23	30	23
" " Angles on upper edge	23			" " Angle on ditto	3x3	30	3x3
" " Spacing	23			" " Tie Plates	30	30	30
BEAMS, Forecastle Deck, Angle, Bulb, Angle, Plate, Tee Bulb, or Channel	5 1/2	3	34	" " Deck. Material and thickness	Plated	30	Plated
" " Angles on upper edge	23			Bridge Deck Stringer Plate, br'dth & thickness	50	32	50
" " Spacing	23			" " Angle on ditto	3x3	32	3x3
				" " Tie Plates	30	30	30
				" " Deck. Material and thickness	Plated	30	Plated
				Forecastle Deck Stringer Plate, br'dth & thickness	23	30	23
				" " Angle on ditto	3x3	30	3x3
				" " Tie Plates	30	30	30
				" " Deck. Material and thickness	Plated	30	Plated

orm. No. 1A.

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GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 19.4 ft., R.Q.D. 1 ft., Bridge 59.4 ft., Forecastle 23.8 ft. (in feet and tenths). When the Poop 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)

Official No. ; Signal Letters

State if Machinery is fitted aft

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. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	67'	10 1/2'	Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,	10 1/2'	3 1/2'
Double bottom, if under Engines only,	17.25	40'	Deep tank, aft,		
Double bottom, if under Boilers only,	11.5		Deep tank, forward,		
Double bottom, forward,	99.7	192'	Other tanks, if fitted,		
	Total capacity of double bottom 5.4	339	(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

Order for Special Survey No. 481

Date 3/8-15

No. 135 in builder's yard.

DATES OF SURVEYS held while building

3/1-16/2-13-24/3-14/4-3-15-19-29/5-5-7-20-28/6-13-24/7-2-15/8
1-8-13-21-25-29/9-12-28/12-1916

Total No. of Visits 25

Surveyor's Signature

P. Leemansburg

Lloyd's Register Foundation