

REPORT ON MACHINERY.

No. 10181

Date of writing Report 14th September 1916 When handed in at Local Office 19 Port of Rotterdam
 No. in Survey held at Rotterdam Date, First Survey September 20 Last Survey Dec. 21 1916
 Reg. Book. on the Dutch Steel Screw Steamer "Gint Philipsland" (Number of Vents 25)
 Master Sperlin Built at Rotterdam By whom built Mr. Scheepman & Co. Rotterdam When built 1916
 Engines made at Rotterdam By whom made Mr. van Scheepman & Co. Rotterdam when made 1916
 Boilers made at Rotterdam By whom made Mr. van Scheepman & Co. Rotterdam when made 1916
 Registered Horse Power 2 Owners Mr. Scheepman & Co. Rotterdam Port belonging to Rotterdam
 Nom. Horse Power as per Section 28 240 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 11 1/2 x 33 x 54 Length of Stroke 39 Revs. per minute 40 Dia. of Screw shaft 12 1/2 Material of Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube no Is the after end of the liner made water tight
 the propeller boss no If the liner is in more than one length are the joints burned no If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive no If two
 liners are fitted, is the shaft lapped or protected between the liners no Length of stern bush 4 3/2
 Dia. of Tunnel shaft 10 1/2 Dia. of Crank shaft journals 11 1/2 Dia. of Crank pin 11 1/2 Size of Crank webs 8 Dia. of thrust shaft under
 flanges 11 1/4 Dia. of screw 14 1/2 Pitch of Screw 16 1/2 No. of Blades 4 State whether moveable no Total surface 600
 No. of Feed pumps 2 Diameter of ditto 3 1/2 Stroke 18 Can one be overhauled while the other is at work no
 No. of Bilge pumps 2 Diameter of ditto 3 1/2 Stroke 18 Can one be overhauled while the other is at work no
 No. of Donkey Engines 2 Sizes of Pumps 10 and 12 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 2 in P.S. of 5" two in stern of 5" three in holds, &c. one in hold of 5" one in hold of 5"
 No. of Bilge Injections 1 sizes 5" Connected to condenser no to circulating pump no Is a separate Donkey Suction fitted in Engine room & size 2 1/2
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible no
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above or below the deep water line above
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes
 What pipes are carried through the bunkers none How are they protected no
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from upper platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Mr. van Scheepman & Co. Rotterdam Version of Boiler Boiler
 Total Heating Surface of Boilers 4000 Is Forced Draft fitted no No. and Description of Boilers 2 Horizontal marine boilers
 Working Pressure 180 lb. Tested by hydraulic pressure to 264 lb. Date of test 5.7.16 No. of Certificate 612
 Can each boiler be worked separately yes Area of fire grate in each boiler 56.4 No. and Description of Safety Valves to
 each boiler two in. loaded Area of each valve 8.29 Pressure to which they are adjusted 180 lb. Are they fitted with easing gear no
 Smallest distance between boilers or uptakes and bunkers or woodwork 16" Mean dia. of boilers 14 1/2 Length 11 5/8 Material of shell plates Steel
 Thickness 1 1/4 Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams all butt seams
 Per centages of strength of longitudinal joint 85.6 Working pressure of shell by rules 196 lb. Size of manhole in shell 12 x 16
 No. and Description of Furnaces in each boiler 2 Material Steel Outside diameter 3' 9"
 Length of plain part 10 Thickness of plates 1 1/4 Description of longitudinal joint Welded No. of strengthening rings 2
 Working pressure of furnace by the rules 185 lb. Combustion chamber plates: Material Steel Thickness: Sides 1 1/8 Back 1 1/8 Top 1 1/8 Bottom 1 1/8
 Pitch of stays to ditto: Sides 8 x 8 Back 8 x 8 Top 8 x 8 If stays are fitted with nuts or riveted heads riveted Working pressure by rules 185 lb.
 Material of stays Steel Area at smallest part 1.500 Area supported by each stay 610 Working pressure by rules 200 lb. End plates in steam space:
 Material Steel Thickness 1 1/8 Pitch of stays 19 x 10 1/2 How are stays secured braced Working pressure by rules 181 lb. Material of stays Steel
 Area at smallest part 3.200 Area supported by each stay 350 Working pressure by rules 194 lb. Material of Front plates at bottom Steel
 Thickness 1 1/8 Material of Lower back plate Steel Thickness 1 1/8 Greatest pitch of stays 12 1/2 Working pressure of plate by rules 185 lb.
 Diameter of tubes 3 1/4 Pitch of tubes 4 1/2 Material of tube plates Steel Thickness: Front 1 1/8 Back 1 1/8 Mean pitch of stays 15 1/8 x 8 1/4
 Pitch across wide water spaces 1' 3" Working pressures by rules 200 lb. Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 8 1/2 x 1 1/4 Length as per rule 7' 9" Distance apart 8 1/4 Number and pitch of stays in each 30 x 8
 Working pressure by rules 198 lb. Steam dome: description of joint to shell no % of strength of joint no
 Diameter no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no
 Pitch of rivets no Working pressure of shell by rules no Crown plates no Thickness no How stayed no

SUPERHEATER. Type no Date of Approval of Plan no Tested by Hydraulic Pressure to no
 Date of Test no Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler no
 Diameter of Safety Valve no Pressure to which each is adjusted no Is Easing Gear fitted no

IS A DONKEY BOILER FITTED? *170*

If so, is a report now forwarded? *2.*

SPARE GEAR. State the articles supplied:—

Two top end bolts, nuts; 2 bottom end bolts, nuts; 2 main bearing bolts, nuts; 1 set of coupling bolts; 1 set of feed, bilge, air, circulating pump valves; 1 set of piston springs; 2 quantities of assorted bolts, nuts; 1 propeller; 1 screw shaft; 1 valve spindle; 2 H.P. Thrust valves; 1 exhauster rod, steps; one air, circulating pump rod; 1 bilge pump, ram; 4 feed ring bolts; 15 condenser tubes, 50 journals; 1 set of check valves; 9 plain, 1 stay tubes; 1 pair of top and bottom end beams.

The foregoing is a correct description,

Maatschappij voor Scheeps- en Werktuigbouw

FLUENDORP

Willel. P. Rulofs

Manufacturer.

Dates of Survey while building: During progress of work in shops -- *Sept. 10. Oct. 1910. Dec. 2. 6. 13. Jan. 2. 17. Feb. 16. March 17. April 17. May 9. 15. 23. 29. June 9. 30.*
During erection on board vessel -- *Aug. 5. 11. 18. 24. Sept. 1. 8. 15. 22. 29. Oct. 6. 13. 20. 27. Nov. 3. 10. 17. 24. Dec. 1. 8. 15. 22. 29. Jan. 5. 12. 19. 26. Feb. 2. 9. 16. 23. 30. March 6. 13. 20. 27. April 3. 10. 17. 24. May 1. 8. 15. 22. 29. June 5. 12. 19. 26. July 3. 10. 17. 24. Aug. 1. 8. 15. 22. 29. Sept. 5. 12. 19. 26. Oct. 3. 10. 17. 24. Nov. 1. 8. 15. 22. 29. Dec. 5. 12. 19. 26. Jan. 9. 16. 23. 30. Feb. 6. 13. 20. 27. March 4. 11. 18. 25. April 1. 8. 15. 22. 29. May 5. 12. 19. 26. June 2. 9. 16. 23. 30. July 6. 13. 20. 27. Aug. 4. 11. 18. 25. Sept. 1. 8. 15. 22. 29. Oct. 5. 12. 19. 26. Nov. 2. 9. 16. 23. 30. Dec. 6. 13. 20. 27. Jan. 10. 17. 24. Feb. 7. 14. 21. 28. March 5. 12. 19. 26. April 2. 9. 16. 23. 30. May 6. 13. 20. 27. June 3. 10. 17. 24. July 7. 14. 21. 28. Aug. 5. 12. 19. 26. Sept. 2. 9. 16. 23. 30. Oct. 6. 13. 20. 27. Nov. 3. 10. 17. 24. Dec. 7. 14. 21. 28. Jan. 11. 18. 25. Feb. 8. 15. 22. 29. March 6. 13. 20. 27. April 3. 10. 17. 24. May 7. 14. 21. 28. June 4. 11. 18. 25. July 8. 15. 22. 29. Aug. 6. 13. 20. 27. Sept. 3. 10. 17. 24. Oct. 7. 14. 21. 28. Nov. 4. 11. 18. 25. Dec. 8. 15. 22. 29. Jan. 12. 19. 26. Feb. 9. 16. 23. 30. March 7. 14. 21. 28. April 4. 11. 18. 25. May 8. 15. 22. 29. June 5. 12. 19. 26. July 9. 16. 23. 30. Aug. 7. 14. 21. 28. Sept. 4. 11. 18. 25. Oct. 8. 15. 22. 29. Nov. 5. 12. 19. 26. Dec. 9. 16. 23. 30. Jan. 13. 20. 27. Feb. 10. 17. 24. March 8. 15. 22. 29. April 5. 12. 19. 26. May 9. 16. 23. 30. June 6. 13. 20. 27. July 10. 17. 24. Aug. 8. 15. 22. 29. Sept. 5. 12. 19. 26. Oct. 9. 16. 23. 30. Nov. 6. 13. 20. 27. Dec. 10. 17. 24. Jan. 14. 21. 28. Feb. 11. 18. 25. March 9. 16. 23. 30. April 6. 13. 20. 27. May 10. 17. 24. June 7. 14. 21. 28. July 11. 18. 25. Aug. 9. 16. 23. 30. Sept. 6. 13. 20. 27. Oct. 10. 17. 24. Nov. 7. 14. 21. 28. Dec. 11. 18. 25. Jan. 15. 22. 29. Feb. 12. 19. 26. March 10. 17. 24. April 7. 14. 21. 28. May 11. 18. 25. June 8. 15. 22. 29. July 12. 19. 26. Aug. 10. 17. 24. Sept. 7. 14. 21. 28. Oct. 11. 18. 25. Nov. 8. 15. 22. 29. Dec. 12. 19. 26. Jan. 16. 23. 30. Feb. 13. 20. 27. March 11. 18. 25. April 8. 15. 22. 29. May 12. 19. 26. June 9. 16. 23. 30. July 13. 20. 27. Aug. 11. 18. 25. Sept. 8. 15. 22. 29. Oct. 12. 19. 26. Nov. 9. 16. 23. 30. Dec. 13. 20. 27. Jan. 17. 24. Feb. 14. 21. 28. March 12. 19. 26. April 9. 16. 23. 30. May 13. 20. 27. June 10. 17. 24. July 14. 21. 28. Aug. 12. 19. 26. Sept. 9. 16. 23. 30. Oct. 13. 20. 27. Nov. 10. 17. 24. Dec. 14. 21. 28. Jan. 18. 25. Feb. 15. 22. 29. March 13. 20. 27. April 10. 17. 24. May 14. 21. 28. June 11. 18. 25. July 15. 22. 29. Aug. 13. 20. 27. Sept. 10. 17. 24. Oct. 14. 21. 28. Nov. 11. 18. 25. Dec. 15. 22. 29. Jan. 19. 26. Feb. 16. 23. 30. March 14. 21. 28. April 11. 18. 25. May 15. 22. 29. June 12. 19. 26. July 16. 23. 30. Aug. 14. 21. 28. Sept. 11. 18. 25. Oct. 15. 22. 29. Nov. 12. 19. 26. Dec. 16. 23. 30. Jan. 20. 27. Feb. 17. 24. March 15. 22. 29. April 12. 19. 26. May 16. 23. 30. June 13. 20. 27. July 17. 24. 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March 40. 31. April 37. 31. May 41. 31. June 38. 31. July 42. 31. Aug. 40. 31. Sept. 37. 31. Oct. 41. 31. Nov. 38. 31. Dec. 42. 31. Jan. 46. 31. Feb. 43. 31. March 41. 31. April 38. 31. May 42. 31. June 39. 31. July 43. 31. Aug. 41. 31. Sept. 38. 31. Oct. 42. 31. Nov. 39. 31. Dec. 43. 31. Jan. 47. 31. Feb. 44. 31. March 42. 31. April 39. 31. May 43. 31. June 40. 31. July 44. 31. Aug. 42. 31. Sept. 39. 31. Oct. 43. 31. Nov. 40. 31. Dec. 44. 31. Jan. 48. 31. Feb. 45. 31. March 43. 31. April 40. 31. May 44. 31. June 41. 31. July 45. 31. Aug. 43. 31. Sept. 40. 31. Oct. 44. 31. Nov. 41. 31. Dec. 45. 31. Jan. 49. 31. Feb. 46. 31. March 44. 31. April 41. 31. May 45. 31. June 42. 31. July 46. 31. Aug. 44. 31. Sept. 41. 31. Oct. 45. 31. Nov. 42. 31. Dec. 46. 31. Jan. 50. 31. Feb. 47. 31. March 45. 31. April 42. 31. May 46. 31. June 43. 31. July 47. 31. Aug. 45. 31. Sept. 42. 31. Oct. 46. 31. Nov. 43. 31. Dec. 47. 31. Jan. 51. 31. Feb. 48. 31. March 46. 31. April 43. 31. May 47. 31. June 44. 31. July 48. 31. Aug. 46. 31. Sept. 43. 31. Oct. 47. 31. Nov. 44. 31. Dec. 48. 31. Jan. 52. 31. Feb. 49. 31. March 47. 31. April 44. 31. May 48. 31. June 45. 31. July 49. 31. Aug. 47. 31. Sept. 44. 31. Oct. 48. 31. Nov. 45. 31. Dec. 49. 31. Jan. 53. 31. Feb. 50. 31. March 48. 31. April 45. 31. May 49. 31. June 46. 31. July 50. 31. Aug. 48. 31. Sept. 45. 31. Oct. 49. 31. Nov. 46. 31. Dec. 50. 31. Jan. 54. 31. Feb. 51. 31. March 49. 31. April 46. 31. May 50. 31. June 47. 31. July 51. 31. Aug. 49. 31. Sept. 46. 31. Oct. 50. 31. Nov. 47. 31. Dec. 51. 31. Jan. 55. 31. Feb. 52. 31. March 50. 31. April 47. 31. May 51. 31. June 48. 31. July 52. 31. Aug. 50. 31. Sept. 47. 31. Oct. 51. 31. Nov. 48. 31. Dec. 52. 31. Jan. 56. 31. Feb. 53. 31. March 51. 31. April 48. 31. May 52. 31. June 49. 31. July 53. 31. Aug. 51. 31. Sept. 48. 31. Oct. 52. 31. Nov. 49. 31. Dec. 53. 31. Jan. 57. 31. Feb. 54. 31. March 52. 31. April 49. 31. May 53. 31. June 50. 31. July 54. 31. Aug. 52. 31. 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Dec. 60. 31. Jan. 64. 31. Feb. 61. 31. March 59. 31. April 56. 31. May 60. 31. June 57. 31. July 61. 31. Aug. 59. 31. Sept. 56. 31. Oct. 60. 31. Nov. 57. 31. Dec. 61. 31. Jan. 65. 31. Feb. 62. 31. March 60. 31. April 57. 31. May 61. 31. June 58. 31. July 62. 31. Aug. 60. 31. Sept. 57. 31. Oct. 61. 31. Nov. 58. 31. Dec. 62. 31. Jan. 66. 31. Feb. 63. 31. March 61. 31. April 58. 31. May 62. 31. June 59. 31. July 63. 31. Aug. 61. 31. Sept. 58. 31. Oct. 62. 31. Nov. 59. 31. Dec. 63. 31. Jan. 67. 31. Feb. 64. 31. March 62. 31. April 59. 31. May 63. 31. June 60. 31. July 64. 31. Aug. 62. 31. Sept. 59. 31. Oct. 63. 31. Nov. 60. 31. Dec. 64. 31. Jan. 68. 31. Feb. 65. 31. March 63. 31. April 60. 31. May 64. 31. June 61. 31. July 65. 31. Aug. 63. 31. Sept. 60. 31. Oct. 64. 31. Nov. 61. 31. Dec. 65. 31. Jan. 69. 31. Feb. 66. 31. March 64. 31. April 61. 31. May 65. 31. June 62. 31. July 66. 31. Aug. 64. 31. Sept. 61. 31. Oct. 65. 31. Nov. 62. 31. Dec. 66. 31. Jan. 70. 31. Feb. 67. 31. March 65. 31. April 62. 31. May 66. 31. June 63. 31. July 67. 31. Aug. 65. 31. Sept. 62. 31. Oct. 66. 31. Nov. 63. 31. Dec. 67. 31. Jan. 71. 31. Feb. 68. 31. March 66. 31. April 63. 31. May 67. 31. June 64. 31. July 68. 31. Aug. 66. 31. Sept. 63. 31. Oct. 67. 31. Nov. 64. 31. Dec. 68. 31. Jan. 72. 31. Feb. 69. 31. March 67. 31. April 64. 31. May 68. 31. June 65. 31. July 69. 31. Aug. 67. 31. Sept. 64. 31. Oct. 68. 31. Nov. 65. 31. Dec. 69. 31. Jan. 73. 31. Feb. 70. 31. March 68. 31. April 65. 31. May 69. 31. June 66. 31. July 70. 31. Aug. 68. 31. Sept. 65. 31. Oct. 69. 31. Nov. 66. 31. Dec. 70. 31. Jan. 74. 31. Feb. 71. 31. March 69. 31. April 66. 31. May 70. 31. June 67. 31. July 71. 31. Aug. 69. 31. Sept. 66. 31. Oct. 70. 31. Nov. 67. 31. Dec. 71. 31. Jan. 75. 31. Feb. 72. 31. March 70. 31. April 67. 31. May 71. 31. June 68. 31. July 72. 31. Aug. 70. 31. Sept. 67. 31. Oct. 71. 31. Nov. 68. 31. Dec. 72. 31. Jan. 76. 31. Feb. 73. 31. March 71. 31. April 68. 31. May 72. 31. 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