

## REPORT ON MACHINERY.

No. 2634.

Port of *Haarlem*.Received at London Office *MUN. 22 JUN 1908*

No. in Survey held at *Haarlem*. Date, first Survey *July 1907* Last Survey *18<sup>th</sup> June 1908*  
 Reg. Book. *101.* on the *Stad Teew. Steamer "Meyenne"* (Number of Visits *37.*)  
 Master *J. Boja* *07.08* Built at *Haarlem* By whom built *Forges & Chantiers* Tons { Gross *2456.47*  
 Engines made at *Haarlem* By whom made *Forges & Chantiers* when made *1908.* Net *1529.82*  
 Boilers made at *Haarlem* By whom made *Forges & Chantiers* when made *1908.*  
 Registered Horse Power *1350* Owners *C<sup>o</sup> d'Obigny & Paulin Capelle & C<sup>o</sup> Managers.* Port belonging to *La Rochelle*  
 Nom. Horse Power as per Section 28 *190.* Is Refrigerating Machinery fitted for cargo purposes *No.* Is Electric Light fitted *No.*

ENGINES, &c.—Description of Engines *Double expansion vertical* No. of Cylinders *3 three* No. of Cranks *3*  
 Dia. of Cylinders *20.7/8 - 23.7/16 & 22"* Length of Stroke *25.7/16* Revs. per minute *85.* Dia. of Screw shaft *11.9/16* Material of *Steel*  
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Separate* Is the after end of the liner made water tight  
 in the propeller boss *yes.* If the liner is in more than one length are the joints burned *—* 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 *Composition paint* If two  
 liners are fitted, is the shaft lapped or protected between the liners *only Composition paint* Length of stern bush *10' 1.1/4*  
 Dia. of Tunnel shaft *9.7/8* Dia. of Crank shaft journals *10.13/32* Dia. of Crank pin *10.13/32* Size of Crank webs *11.7/8 x 7.1/2* Dia. of thrust shaft under  
 collars *10.13/32* Dia. of screw *15.1.9/16* Pitch of Screw *14 feet 6 inches* No. of Blades *4* State whether moveable *No.* Total surface *75 Square Feet*  
 No. of Feed pumps *(2) two* Diameter of ditto *3.1/2* Stroke *10"* Can one be overhauled while the other is at work *yes.*  
 No. of Bilge pumps *(2) two* Diameter of ditto *3.1/8* Stroke *17.1/2* Can one be overhauled while the other is at work *yes.*  
 No. of Donkey Engines *(2) two* Sizes of Pumps *8.5/8 x 7.1/2 x 6" - 8.1/2 x 6"* No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room *(3) three of 2.3/4" Diam. & by turbine 6"* In Holds, &c. *Forehead 4 of 2.3/4" diam by collectors.*  
 and aft *(4) four of 2.3/4" by collectors.*  
 No. of Bilge Injections *1* sizes *6"* Connected to condenser, or to circulating pump *Yes* Is a separate Donkey Suction fitted in Engine room & size *yes. 2.3/4"*  
 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  
 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 *—*  
 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.*  
 Dates of examination of completion of fitting of Sea Connections *March 1908* of Stern Tube *March 1908* Screw shaft and Propeller *March 1908*  
 Is the Screw Shaft Tunnel watertight *yes.* Is it fitted with a watertight door *yes.* worked from *top platform engine*

BOILERS, &c.—(Letter for record *(S)*) Manufacturers of Steel *Demain-Luzin & Schulz-Knauff (B&H)*  
 Total Heating Surface of Boilers *3234.5* Is Forced Draft fitted *No.* No. and Description of Boilers *2 two Cylindrical horizontally*  
 Working Pressure *170. lb.* Tested by hydraulic pressure to *256. lb.* Date of test *April 5-7. 1908* No. of Certificates *66-67.*  
 Can each boiler be worked separately *yes.* Area of fire grate in each boiler *53.8 Square Feet* No. and Description of Safety Valves to  
 each boiler *(2) two with Spring.* Area of each valve *3.14* Pressure to which they are adjusted *170. lb.* Are they fitted with easing gear *yes.*  
 Smallest distance between boilers or uptakes and bunkers or woodwork *22."* Mean dia. of boilers *13.2.3/4* Length *11.6"* Material of shell plates *Steel*  
 Thickness *1.9/16* Range of tensile strength *27-630. tons* Are the shell plates welded or flanged *flanged* Descrip. of riveting: cir. seams *double*  
 long. seams *both zig-zag* Diameter of rivet holes in long. seams *1.19/64* Pitch of rivets *4.1/8* *none of plates* width of butt straps *18.3/8*  
 Per centages of strength of longitudinal joint rivets *75.* Working pressure of shell by rules *195. lb.* Size of manhole in shell *11.3/8 x 15.3/8*  
 plate *80.* Size of compensating ring *33 - 1.1/8* No. and Description of Furnaces in each boiler *(3) three ribbon* Material *Steel* Outside diameter *39."*  
 Length of plain part *100."* Thickness of plates *33/64* Description of longitudinal joint *Welded.* No. of strengthening rings *—*  
 Working pressure of furnace by the rules *199. lb.* Combustion chamber plates: Material *Steel* Thickness: Sides *19/32* Back *19/32* Top *19/32* Bottom *19/32*  
 Pitch of stays to ditto: Sides *9.1/8 & 7.1/4* Back *8.1/2 & 7.1/2* Top *7.8* If stays are fitted with nuts or riveted heads *all riveted* Working pressure by rules *190. lb.*  
 Material of stays *Steel* Diameter at smallest part *1.3/8* Area supported by each stay *62.9"* Working pressure by rules *180. lb.* End plates in steam space:  
 Material *Steel* Thickness *7/8* Pitch of stays *15."* How are stays secured *double nuts* Working pressure by rules *175. lb.* Material of stays *Steel*  
 Diameter at smallest part *2.1/2* Area supported by each stay *96."* Working pressure by rules *190. lb.* Material of Front plates at bottom *Steel*  
 Thickness *7/8* Material of Lower back plate *Steel* Thickness *7/8* Greatest pitch of stays *53."* Working pressure of plate by rules *180. lb.*  
 Diameter of tubes *3.1/2* Pitch of tubes *4.5/8* Material of tube plates *Steel* Thickness: Front *7/8* Back *7/8* Mean pitch of stays *9.1/2*  
 Pitch across wide water spaces *1.1/8* Working pressures by rules *175. lb.* Girders to Chamber tops: Material *Steel* Depth and  
 thickness of girder at centre *5.1/2 x 1.1/8* Length as per rule *25.3/4* Distance apart *7.7/8* Number and pitch of stays in each *3 - 6.3/4*  
 Working pressure by rules *—* Superheater or Steam chest; how connected to boiler *—* Can the superheater be shut off and the boiler worked  
 separately *—* Diameter *—* Length *—* Thickness of shell plates *—* Material *—* Description of longitudinal joint *—* Diam. of rivet  
 holes *—* Pitch of rivets *—* Working pressure of shell by rules *—* Diameter of flue *—* Material of flue plates *—* Thickness *—*  
 If stiffened with rings *—* Distance between rings *—* Working pressure by rules *—* End plates: Thickness *—* How stayed *—*  
 Working pressure of end plates *—* Area of safety valves to superheater *—* Are they fitted with easing gear *—*



# VERTICAL DONKEY BOILER— Manufacturers of Steel

No. Description  
 Made at By whom made When made Where fixed  
 Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety  
 Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment  
 If fitted with easing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length  
 Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams  
 Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets  
 Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays  
 Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint  
 Working pressure of furnace by rules Thickness of furnace crown plates Stayed by  
 Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:— 1 propeller (cast-iron) 2 Connecting - and top & bottom end bolts with nuts,  
 2 Main - Bearing Bolts, one set of coupling bolts, one set of feed & bilge pump valves, one set of piston rings for  
 2 cylinders, a quantity of bolts & various materials.

The foregoing is a correct description,

Manufacturer.

*Edouard Lavoisier*

Dates of Survey while building  
 During progress of work in shops - 1907. July 4. 31. Aug. 9. 20. Sep. 24 Oct. 31. 30. 31. Nov. 18. 23 Dec. 13 1908 Jan. 15. 21. 27. Feb. 1. 8. 15. 22. 29. March 6. 13. 20. April 1. 8. 15. 22. 29. May 6. 13. 20. 27. June 3. 10. 17. 24. 31. July 7. 14. 21. 28. Aug. 4. 11. 18. 25. Sept. 1. 8. 15. 22. 29. Oct. 6. 13. 20. 27. Nov. 3. 10. 17. 24. 31. Dec. 1. 8. 15. 22. 29. 1909 Jan. 5. 12. 19. 26. Feb. 2. 9. 16. 23. 2. 9. 11. 18.  
 Total No. of visits (37) thirty-seven. Is the approved plan of main boiler forwarded herewith Yes.

Dates of Examination of principal parts—Cylinders June 08 Slides June 08 Covers June 08. Pistons June 08 Rods June 08  
 Connecting rods June 08. Crank shaft June 08. Thrust shaft June 08 Tunnel shafts June 08 Screw shaft March 08 Propeller March 08  
 Stern tube March 08 Steam pipes tested May 1908 Engine and boiler seatings May 08 Engines holding down bolts May 08.  
 Completion of pumping arrangements June 1908 Boilers fixed May 1908 Engines tried under steam June 08.  
 Main boiler safety valves adjusted 15 May 1908 Thickness of adjusting washers Port-side boiler 1 1/16 & 1 1/32. Starb-side 1 1/16 & 1 1/32.  
 Material of Crank shaft Steel Identification Mark on Do. A.G. 206. Material of Thrust shaft Steel Identification Mark on Do. A.G. 207.  
 Material of Tunnel shafts Identification Marks on Do. A.G. 208 Material of Screw shafts Steel Identification Marks on Do. A.G. 209.  
 Material of Steam Pipes Copper and Steel Test pressure 340 lbs per sq. inch

General Remarks (State quality of workmanship, opinions as to class, &c. as Secretary Letters of 10 & 12 November 1906 - (E))

The Machinery of this vessel has been built under special survey, as per approved plans, and in accordance with rules requirements. The materials tested at the works were in good and malleable quality. The cylinders, covers, casing valves, condenser, steam pipes, were tested by hydraulic pressure, and the workmanship was satisfactory.

The materials used in the construction of boilers, which is in Timms-Martin Steel, from Demain-Arquin & Schütz-Knaudt (Essen) were tested at the Works, and the marks verified certificates in hand.

The trials of engine made on the road of Havre, during 4/1 four hours have given satisfactory results. After trials the principal organs were examined in engine and the working of these organs, was found satisfactory.

The Machinery of this vessel being in good and safe working condition; In my opinion it is eligible for to be classed with notation **L.M.C. 6.08** inserted in the Register Book.

The amount of Entry Fee... £ 50.00  
 Special... £ 212.50  
 Donkey Boiler Fee... £ 1.00  
 Travelling Expenses (if any) £ 151.25

When applied for, 18 June 1908  
 When received, 23 June 1908

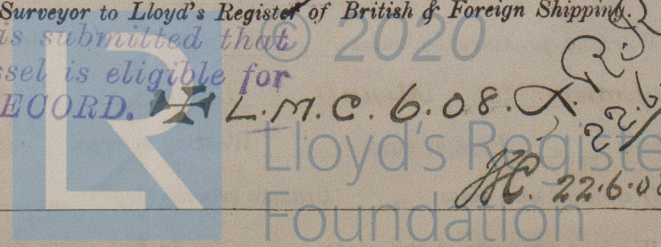


*H. Cartier*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.  
 It is submitted that this vessel is eligible for THE RECORD. L.M.C. 6.08.

Committee's Minute  
 Assigned

TUES. 25 JULY 1908  
 + L.M.C. 6.08

MACHINERY  
 WRITTEN



Certificate (if required) to be sent to this Office.

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