

# REPORT ON MACHINERY

Received at London Office

Date of writing Report *27 December 1912* When handed in at Local Office *19* Port of *Haarlem*  
 Date, First Survey *15 December 1911* Last Survey *19 December 1912*  
 (Number of Visits *41*)  
 Name of ship *"Ville d'Alger"*  
 Master *Leperon* Built at *Haarlem* By whom built *Forges & Chantiers*  
 Engines made at *Haarlem* By whom made *Forges & Chantiers* when made *1912*  
 Boilers made at *Haarlem* By whom made *Forges & Chantiers* when made *1912*  
 Indicated Horse Power *2050* Owners *Comp. Havre Peninsulaire* Port belonging to *Haarlem*  
 Nom. Horse Power as per Section 28 *331* Is Refrigerating Machinery fitted for cargo purposes *No.* Is Electric Light fitted *Yes.*

ENGINES, &c.—Description of Engines *Natural triple expansion* No. of Cylinders *three* No. of Cranks *three*  
 Dia. of Cylinders *24 1/2" 40" & 66"* Length of Stroke *45"* Revs. per minute *72* Dia. of Screw shaft *as per rule 13.88* Material of *Steel*  
 the screw shaft fitted with a continuous liner the whole length of the stern tube *all length* Is the after end of the liner made water tight  
 the propeller boss *Yes.* 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  
 shafts are fitted, is the shaft lapped or protected between the liners *No.* Length of stern bush *7' 3"*  
 Dia. of Tunnel shaft *as per rule 12.36* Dia. of Crank shaft journals *as per rule 12.95* Dia. of Crank pin *12.95* Size of Crank webs *8 1/2" x 18 1/2"* Dia. of thrust shaft under  
 arms *13.20* Dia. of screw *16.2 3/8* Pitch of Screw *16.6"* No. of Blades *4* State whether moveable *No.* Total surface *88 sq. feet*  
 of Feed pumps *2* Diameter of ditto *3 1/4"* Stroke *25 1/2"* Can one be overhauled while the other is at work *Yes.*  
 of Bilge pumps *2* Diameter of ditto *4"* Stroke *25 1/2"* Can one be overhauled while the other is at work *Yes.*  
 of Donkey Engines *3* Sizes of Pumps *6" 7 1/2" & 8 1/2" Diam.* No. and size of Suctions connected to both Bilge and Donkey pumps  
 Engine Room *(3) three of 3 1/2" Diameters* In Holds, &c. by Collectors *4 of 4" & 3 1/2" for head*  
 of Bilge Injections *all sizes 3 1/2"* Connected to condenser to circulating pump *Yes.* Is a separate Donkey Suction fitted in Engine room & size *Yes 3 1/2" Diam.*  
 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  
 all connections with the sea direct on the skin of the ship *as ship direct* Are they Valves or Cocks *Both*  
 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*  
 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.*  
 at pipes are carried through the bunkers *No.* How are they protected *No.*

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes.*  
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes.*  
 Date of examination of completion of fitting of Sea Connections *September 1912* of Stern Tube *Sep. 1912* Screw shaft and Propeller *Sep. 1912*  
 the Screw Shaft Tunnel watertight *Yes.* Is it fitted with a watertight door *Yes.* worked from *top platform engine*  
 MACHINERY, &c.—(Letter for record *(S.)* Manufacturers of Steel *M. Chapelle & Co. Eisen & Stahlwerke, Dusseldorf*  
 Is Heating Surface of Boilers *4178* Is Forced Draft fitted *Yes.* No. and Description of Boilers *3 Single 6 furnaces coxcomb*  
 Working Pressure *135 lbs.* Tested by hydraulic pressure to *235 lbs.* Date of test *20-8-12* No. of Certificate *103-104-105*  
 each boiler be worked separately *Yes.* Area of fire grate in each boiler *35.5 sq. feet* No. and Description of Safety Valves to  
 boiler *2 imp. valves, springs* Area of each valve *5.4* Pressure to which they are adjusted *135 lbs.* Are they fitted with easing gear *Yes.*  
 least distance between boilers or uptakes and bunkers or woodwork *3 feet* Mean dia. of boilers *11.6"* Length *12.2"* Material of shell plates *Steel*  
 thickness *1 3/16"* Range of tensile strength *27.3-31.5* Are the shell plates welded or flanged *flanged* Descrip. of riveting: cir. seams *all double*  
 i. seams *all double* Diameter of rivet holes in long. seams *1.14* Pitch of rivets *8.54* Width of butt straps *17 1/2"*  
 percentages of strength of longitudinal joint *87* Working pressure of shell by rules *14.00* Size of manhole in shell *15 3/4" x 11 7/8"*  
 of compensating ring *31 1/2" x 1.10* No. and Description of Furnaces in each boiler *2 plain Coxcomb* Material *Steel* Outside diameter *42"*  
 length of plain part *top 102"* Thickness of plates *bottom 89 1/4"* Description of longitudinal joint *welded* No. of strengthening rings *3*  
 working pressure of furnace by the rules *14.00* Combustion chamber plates: Material *Steel* Thickness: Sides *2 1/32"* Back *2 1/32"* Top *2 1/32"* Bottom *7/8"*  
 of stays to ditto: Sides *8 3/8" x 9 1/8"* Back *9-8.5"* Top *9-8.3"* If stays are fitted with nuts or riveted heads *all nuts* Working pressure by rules *14.00*  
 Material of stays *Steel* Diameter at smallest part *1 7/8"* Area supported by each stay *56"* Working pressure by rules *14.00* End plates in steam space:  
 Material *Steel* Thickness *1.02* Pitch of stays *15 3/4"* How are stays secured *Double nuts* Working pressure by rules *14.00* Material of stays *Steel*  
 Diameter at smallest part *2.82* Area supported by each stay *140"* Working pressure by rules *14.00* Material of Front plates at bottom *Steel*  
 Thickness *1.02* Material of Lower back plate *Steel* Thickness *1.02* Greatest pitch of stays *25 1/2"* Working pressure of plate by rules *14.00*  
 Diameter of tubes *2 3/8"* Pitch of tubes *3 3/4"* Material of tube plates *Steel* Thickness: Front *1.02* Back *1 1/16"* Mean pitch of stays *7.48"*  
 Pitch across wide water spaces *1.22* Working pressures by rules *14.00* Girders to Chamber tops: Material *Steel* Depth and  
 thickness of girder at centre *8 3/4" x 25 1/2"* Length as per rule *33* Distance apart *9.05* Number and pitch of stays in each *2-9 1/8"*  
 Working pressure by rules *14.00* Superheater or Steam chest; how connected to boiler *No.* Can the superheater be shut off and the boiler worked  
 separately *No.* Diameter *No.* Length *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.* Diameter of flue *No.* Material of flue plates *No.* Thickness *No.*  
 If stiffened with rings *No.* Distance between rings *No.* Working pressure by rules *No.* End plates: Thickness *No.* How stayed *No.*  
 Working pressure of end plates *No.* Area of safety valves to superheater *No.* Are they fitted with easing gear *No.*



