

# REPORT ON MACHINERY.

No. 2714

Port of *Haave*

Received at London Office **WEDS. 20 APR 1909**

No. in Survey held at *Haave*

Date, first Survey *22 April 1908* Last Survey *17 April 1909*

Reg. Book.

*44* on the *Saw-Steamer Shelter-Deck.*

*"Eugene Grosos."*

(Number of Visits *49*)

Tons { Gross *4835.97*  
Net *3012.11*

Master *A. Roullier* Built at *Dunkirk*

By whom built *Ateliers & Chantiers de France.* When built *1909.*

Engines made at *Haave*

By whom made *Caillard & Co*

when made *1909*

Boilers made at *Haave*

By whom made *Caillard & Co*

when made *1909*

Indicated Horse Power *1760*

Owners *Comp. Havain Peninsulaire*

Port belonging to *Haave*

Nom. Horse Power as per Section 28 *325*

Is Refrigerating Machinery fitted for cargo purposes *No.*

Is Electric Light fitted *Yes.*

ENGINES, &c.—Description of Engines *Vertical 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 *68* Dia. of Screw shaft *14 1/2* Material of screw shaft *Steel*

Is the screw shaft fitted with a continuous liner the whole length of the stern tube *whole length* Is the after end of the liner made water tight

at 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

liners are fitted, is the shaft lapped or protected between the liners *no.* Length of stern bush *7 feet 3 inches*

Dia. of Tunnel shaft *12 3/8* Dia. of Crank shaft journals *12 61/64* Dia. of Crank pin *12 61/64* Size of Crank webs *8 1/16 x 18 1/2* Dia. of thrust shaft under

rollers *13 1/4* Dia. of screw *17 feet* Pitch of Screw *16 feet 6 inches* No. of Blades *4* State whether moveable *no.* Total surface *88 square feet*

No. of Feed pumps *two* Diameter of ditto *3 1/4* Stroke *25 1/2* Can one be overhauled while the other is at work *yes.*

No. of Bilge pumps *two* Diameter of ditto *4* Stroke *25 1/2* Can one be overhauled while the other is at work *yes.*

No. of Donkey Engines *three* Sizes of Pumps *6, 7 1/2, & 8 1/2* No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room *three of 3 1/2 diameter* In Holds, &c. *by Collectors, four of 4 & 3 1/2 for head*

and *four of 4 & 3 1/2 aft.* inside tunnel *one of 3 1/2 diameter.*

No. of Bilge Injections *one* sizes *6 1/2* Connected to condenser, or to circulating pump *no.* Is a separate Donkey Suction fitted in Engine room & size *yes.*

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 *on ship direct* 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.*

How are they protected *hid*

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 *Seen April 09 of Stern Tube April 1909* Screw shaft and Propeller *Seen in place April 1909*

Is the Screw Shaft Tunnel watertight *yes.* Is it fitted with a watertight door *yes.* worked from *top platform engine room*

MATERIALS, &c.—(Letter for record *S*) Manufacturers of Steel *Rheinisch Stahlwerk Duisburg Eisen John Spencer & Sons. Ilmenau-Auzim*

Total Heating Surface of Boilers *3990* Is Forced Draft fitted *yes.* No. and Description of Boilers *three single 6 plain furnaces.*

Working Pressure *185 lb* Tested by hydraulic pressure to *269 lb* Date of test *21-12-08* No. of Certificates *72, 73, 74*

Can each boiler be worked separately *yes.* Area of fire grate in each boiler *34 square feet* No. and Description of Safety Valves to

each boiler *two with Spring* Area of each valve *5.94* Pressure to which they are adjusted *185 lb* Are they fitted with easing gear *yes.*

Smallest distance between boilers or uptakes and bunkers *3 feet* Mean dia. of boilers *11.6 1/4* Length *11.8 3/8* Material of shell plates *Steel*

Thickness *1 3/16* Range of tensile strength *27 to 31 ton* Are the shell plates welded or flanged *flanged* Descrip. of riveting: cir. seams *all double*

g. seams *all triple* Diameter of rivet holes in long. seams *1 1/32* Pitch of rivets *5 3/8* width of butt straps *17 1/8*

Percentages of strength of longitudinal joint rivets *74* Working pressure of shell by rules *195* Size of manhole in shell *11 3/8 x 15 3/16*

Size of compensating ring *29 1/2 x 15 1/16* No. and Description of Furnaces in each boiler *two Adams Eng* Material *Steel* Outside diameter *40 3/4*

Length of plain part *top 98 3/8 bottom 98 3/8* Thickness of plates *top 39/64 bottom 39/64* Description of longitudinal joint *Welded* No. of strengthening rings *three*

Working pressure of furnace by the rules *195* Combustion chamber plates: Material *Steel* Thickness: Sides *2 1/32* Back *2 1/32* Top *2 1/32* Bottom *1 1/8*

Distance of stays to ditto: Sides *9* Back *8 1/2* Top *9* If stays are fitted with nuts or riveted heads *all nutted* Working pressure by rules *195*

Material of stays *Steel* Diameter at smallest part *1 9/16 - 1 1/16* Area supported by each stay *22* Working pressure by rules *190* End plates in steam space:

Material *Steel* Thickness *1 1/32* Pitch of stays *15 3/8* How are stays secured *Iron nuts* Working pressure by rules *190* Material of stays *Steel*

Diameter at smallest part *2 19/32* Area supported by each stay *140* Working pressure by rules *190* Material of Front plates at bottom *Steel*

Thickness *2 7/32* Material of Lower back plate *Steel* Thickness *1 5/16* Greatest pitch of stays *25 1/2* Working pressure of plate by rules *190*

Diameter of tubes *2 1/2* Pitch of tubes *3 3/16* Material of tube plates *Steel* Thickness: Front *1 1/32* Back *1 1/16* Mean pitch of stays *7 1/2*

Pitch across wide water spaces *1 1/16* Working pressures by rules *190* Girders to Chamber tops: Material *Steel* Depth and

thickness of girder at centre *8 5/8 x 23 1/32* Length as per rule *33* Distance apart *9* Number and pitch of stays in each *two 9*

Working pressure by rules *190* 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.*

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