

Capitaine Henri Ballier

Rpt. 4

REPORT ON MACHINERY.

No. 10

Received at London Office

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Date of writing Report 18/1 Jan. 1922 When handed in at Local Office 18/1 Jan. 1922 Port of Paris

No. in Survey held at S^t Denis s/Seine Date, First Survey 24-5-21 Last Survey 10-2-1922
Reg. Book.

on the BOILERS { Nos 1604 for the Colliers Nos 12 to 19 (Marie Louise Agrandiz Type) Tons { Gross
" 1605

Master being Built at Caen By whom built Chantiers Navals Français When built

Engines made at S^t Denis s/Seine By whom made Chantiers, Ateliers de la Loire when made 1922

Boilers made at S^t Denis s/Seine By whom made Chantiers, Ateliers de la Loire when made 1922

Registered Horse Power Owners French Government Port belonging to

Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines

| Description of Engines | | | No. of Cylinders | No. of Cranks |
|---|--|---|--|------------------------------------|
| Dia. of Cylinders | Length of Stroke | Revs. per minute | Dia. of Screw shaft as per rule as fitted | Material of screw shaft |
| Is the screw shaft fitted with a continuous liner the whole length of the stern tube | | | | |
| Is the after end of the liner made water tight | | | | |
| in the propeller boss | | | | |
| 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 | | | | |
| If two | | | | |
| liners are fitted, is the shaft lapped or protected between the liners | | | | |
| Length of stern bush | | | | |
| Dia. of Tunnel shaft as per rule as fitted | Dia. of Crank shaft journals as per rule as fitted | Dia. of Crank pin | Size of Crank webs | Dia. of thrust shaft under collars |
| Dia. of screw | Pitch of Screw | No. of Blades | State whether moveable | Total surface |
| No. of Feed pumps | Diameter of ditto | Stroke | Can one be overhauled while the other is at work | |
| No. of Bilge pumps | Diameter of ditto | Stroke | Can one be overhauled while the other is at work | |
| No. of Donkey Engines | Sizes of Pumps | No. and size of Suctions connected to both Bilge and Donkey pumps | | |
| In Engine Room | | | | |
| In Holds, &c. | | | | |

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers How are they protected

Are all Pipes, Cocks, Valves, and Pumps in communication with the machinery and all boiler mountings accessible at all times

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 4359 #) Manufacturers of Steel plating and stays: Schneider, Lie. tubes: Water: Talbot Smoke: Stewart

Total Heating Surface of Boilers 405^{sq} m Is Forced Draft fitted No No. and Description of Boilers 2 Boilers Buchon Capus Type

Working Pressure 14 Kgs Tested by hydraulic pressure to 24 Kgs Date of test 10-2-22 No. of Certificate 1604-1605

Can each boiler be worked separately Area of fire grate in each boiler 3⁷95^{sq} m No. and Description of Safety Valves to

each boiler / double. Lockburn 55^m Area of each valve 23⁸⁸59^{sq} m Pressure to which they are adjusted Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 3⁷⁷ m Length 3²³ m Material of shell plates Steel

Thickness 27⁵ m Range of tensile strength 46 K. Are the shell plates welded or flanged flanged Descrip. of riveting: cir. seams double riveting

long. seams treble riveting Diameter of rivet holes in long. seams 31 m Pitch of rivets 208 m Lap of plates or width of butt straps 440 m

Per centages of strength of longitudinal joint rivets 96⁷ plate 85¹ Working pressure of shell by rules 14⁰⁵ Kgs Size of manhole in shell 400 x 300

Size of compensating ring 208 x 31 No. and Description of Furnaces in each boiler 2 Corrugated Material Steel Outside diameter 1² m

Length of plain part top Thickness of plates crown 16 m bottom 16 m Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules 14⁵ K Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

Material Steel Thickness 24 m Pitch of stays 440 How are stays secured Screwed in plates and bolted Working pressure by rules Material of stays Steel 40 Kgs

Area at smallest part 38⁴⁶⁵59^{sq} m Area supported by each stay 396^{sq} m Working pressure by rules Material of Front plates at bottom Steel

Thickness 24⁵ m Material of Lower back plate Steel Thickness 24⁵ Greatest pitch of stays See plan Working pressure of plate by rules

Diameter of tubes 72/80 Pitch of tubes 107 m Material of tube plates Steel Thickness: Front 24⁵ Back 24⁵ Mean pitch of stays 214 m

Pitch across wide water spaces See plan Working pressures by rules Girders to Chamber tops: Material Depth and

thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

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Foundation

