

Capitaine Bresse allée

FRI. JUN. 15 1923

Rpt. 4.

# REPORT ON MACHINERY

No. 8  
JAN 16 1922

Received at London Office

Date of writing Report 13/1 Jan 1922 When handed in at Local Office 13/1 Jan 1922 Port of Paris  
No. in Survey held at S<sup>e</sup> Denis Date, First Survey 19/11/20 Last Survey 3/11/1922  
Reg. Book. ✓ on the Engine No 2288 for "Type Marie Louise Agrandi" Vessels (12519) Tons } Gross ✓  
Master ✓ Built at Caen By whom built Chantiers Navals Français When built 1920-1921-1922 } Net ✓  
Engines made at S<sup>e</sup> Denis By whom made Ateliers Chantiers de la Loire when made 1922  
Boilers made at ✓ By whom made ✓ when made ✓  
Registered Horse Power ✓ Owners French Government Port belonging to ✓  
Nom. Horse Power as per Section 28 235.5 Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted ✓

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 18 1/8 29 1/8 50 3/8 Length of Stroke 960 Revs. per minute 90 Dia. of Screw shaft 296 as per rule 296 as fitted 296 Material of screw shaft Steel  
Is the screw shaft fitted with a continuous liner the whole length of the stern tube No 2 Liners 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 ✓ If two liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 17 1/2  
Dia. of Tunnel shaft 248 as per rule 248 as fitted 248 Dia. of Crank shaft journals 264 as per rule 264 as fitted 264 Dia. of Crank pin 264 Size of Crank webs 165 Dia. of thrust shaft under collars 264 Dia. of screw 4 7/15 Pitch of Screw 3 7/10 No. of Blades 4 State whether moveable No Total surface 6 m<sup>2</sup> 85  
No. of Feed pumps 2 Diameter of ditto 65 Stroke 480 Can one be overhauled while the other is at work Yes  
No. of Bilge pumps 2 Diameter of ditto 65 Stroke 480 Can one be overhauled while the other is at work Yes  
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 connection 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 ) Manufacturers of Steel

Total Heating Surface of Boilers ✓ Is Forced Draft fitted ✓ No. and Description of Boilers  
Working Pressure 4 kg = 199 at 15 Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate  
Can each boiler be worked separately ✓ Area of fire grate in each boiler ✓ No. and Description of Safety Valves to each boiler ✓ Are they fitted with easing gear  
Area of each valve ✓ Pressure to which they are adjusted ✓ Are they fitted with easing gear  
Smallest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers ✓ Length ✓ Material of shell plates  
Thickness ✓ Range of tensile strength ✓ Are the shell plates welded or flanged ✓ Descrip. of riveting: cir. seams  
long. seams ✓ Diameter of rivet holes in long. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps  
Per centages of strength of longitudinal joint ✓ rivets ✓ Working pressure of shell by rules ✓ Size of manhole in shell  
plate ✓ No. and Description of Furnaces in each boiler ✓ Material ✓ Outside diameter  
Length of plain part ✓ Thickness of plates ✓ crown ✓ bottom ✓ Description of longitudinal joint ✓ No. of strengthening rings  
Working pressure of furnace by the rules ✓ 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 ✓ Thickness ✓ Pitch of stays ✓ How are stays secured ✓ Working pressure by rules ✓ Material of stays  
Area at smallest part ✓ Area supported by each stay ✓ Working pressure by rules ✓ Material of Front plates at bottom  
Thickness ✓ Material of Lower back plate ✓ Thickness ✓ Greatest pitch of stays ✓ Working pressure of plate by rules  
Diameter of tubes ✓ Pitch of tubes ✓ Material of tube plates ✓ Thickness: Front ✓ Back ✓ Mean pitch of stays  
Pitch across wide water spaces ✓ 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 ✓

006552-006563-0102

Lloyd's Register Foundation



IS A DONKEY BOILER FITTED?

*If so, is a report now forwarded?*

SPARE GEAR. State the articles supplied:— Connecting rod top end cap, 1 connecting rod top end half bearing, 2 connecting rod bottom end cap, 2 connecting rod bottom end half bearing, 2 connecting rod top end bolts, 2 connecting rod bottom end bolts, 1 main bearing bolts, 6 shafts coupling bolts, 4 bilge pump valves, 4 seats for same, 4 feed pump valves, 4 seats for same, 2 H.P. piston rings, 2 I.P. piston rings, 2 L.P. Piston rings, 39 condenser tubes with 78 ferrules, 1 propeller.

The foregoing is a correct description,  
Ateliers & Chantiers de la Loire

*Manufacturer.*

Dates of Survey while building	{	During progress of work in shops - -	19/1/20 - 30/2/20 - 10/2/21 - 16/3/21 - 15/4/21 - 24/5/21 - 4/7/21 - 17/8/21 - 5/9/21 - 14/10/21 -
		During erection on board vessel - - -	31/2/21 - 3/1/22. ✓
		Total No. of visits	

Is the approved plan of main boiler forwarded herewith

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders  $\begin{cases} 16/3/21 \\ 12/8/21 \\ 31/12/21 \end{cases}$  Slides  $\begin{cases} 16/3/21 \\ 31/12/21 \end{cases}$  Covers  $\begin{cases} 16/3/21 \\ 12/8/21 \\ 31/12/21 \end{cases}$  Pistons  $\begin{cases} 9/11/20 \\ 24/5/21 \\ 15/9/21 \end{cases}$  Rods *ditto*  
 Connecting rods *ditto* Crank shaft *ditto* Thrust shaft 15/9/21 Tunnel shafts 15/9/21 Screw shaft 15/9/21 Propeller 24/5/21

Stern tube	Steam pipes tested	Engine and boiler seatings	Engines holding down bolts
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Completion of pumping arrangements	Boilers fixed	Engines tried under steam
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Completion of fitting sea connections ..... Stern tube ..... Screw shaft and propeller

Main boiler safety valves adjusted	Thickness of adjusting washers

Material of Crank shaft *Steel* Identification Mark on Do. *R* Material of Thrust shaft *Steel* Identification Mark on Do.

Material of Tunnel shafts *Steel* Identification Marks on Do. *2* Material of Screw shafts *Steel* Identification Marks on Do.

### Material of Steam Pipes

*Test pressure*

Is an installation fitted for burning oil fuel

Is the flash point of the oil to be used over 150°F.

*Have the requirements of Section 49 of the Rules been complied with*

*Is this machinery duplicate of a previous case*

*If so, state name of vessel*

*General Remarks* (State quality of workmanship, opinions as to class, &c.)

This engine has been constructed under Special Survey at the works of the Chantiers, Ateliers de la Loire at St Denis, in accordance with approved plans; The materials and workmanship are good and satisfactory. The materials have been tested to our satisfaction.

The engine is intended to be placed on board of one of the vessels Nos 12 to 19, built at Chantiers Nationaux Français under the Special Survey of the Society's Surveyors at Caen.

The present report is to be completed -

1<sup>o</sup> As regards machinery, by the Society's Surveyor at  
Coen.

2<sup>o</sup> As regards boilers, which are being constructed by Messrs Ateliers & Chantiers de la Loire at St Denis, by the Paris Office, when the boilers will be completed.

The amount of Entry Fee	...	£	:	:	When applied for,
Special	...	£	23.11.0	:	13.1 1922
Donkey Boiler Fee	...	£	:	:	When received,
Travelling Expenses (if any)	...	£	220	:	Paid 1922

*Engineer Surveyor to Lloyd's Register of Shipping.*

Committee's Minute

FRI. 29 JUN. 1923

*Assigned*