

Capitaine Biere allee

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^e 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 ✓
Net ✓

Master ✓ Built at Caen By whom built Chantiers Navals Français When built 1920-1921-1922

Engines made at S^e 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 460-760-1280 Length of Stroke 960 Revs. per minute 90 Dia. of Screw shaft 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 1^m 1²

Dia. of Tunnel shaft 248 Dia. of Crank shaft journals 264 Dia. of Crank pin 264 Size of Crank webs 165 Dia. of thrust shaft under

collars 264 Dia. of screw 4^m 15 Pitch of Screw 3^m 510 No. of Blades 4 State whether moveable No Total surface 6^m 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 lb 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 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

Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part top..... Thickness of plates crown..... 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

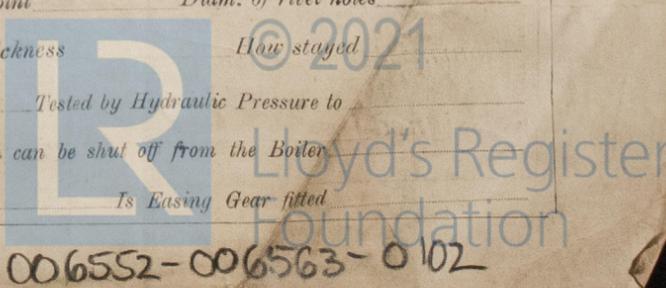
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

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

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, 2 main bearing bolts, 6 shaft 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

LE DIRECTEUR

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Manufacturer.

Dates of Survey while building { During progress of work in shops -- 19/11/20 - 20/2/20 - 10/2/21 - 16/3/21 - 15/4/21 - 24/5/21 - 4/7/21 - 17/8/21 - 5/9/21 - 14/10/21 - 31/12/21 - 3/1/22.
During erection on board vessel ---
Total No. of visits

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders { 16/3/21, 12/8/21, 31/12/21 } Slides { 16/3/21, 31/12/21 } Covers { 16/3/21, 12/8/21, 31/12/21 } Pistons { 9/11/20, 24/5/21 } 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
Completion of pumping arrangements Boilers fixed Engines tried under steam
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. R
Material of Tunnel shafts Steel Identification Marks on Do. R Material of Screw shafts Steel Identification Marks on Do. R
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 Reunis Francais under the Special Survey of the Society's Surveyors at Caen. The present report is to be completed:—
1° As regards machinery, by the Society's Surveyors at Caen.
2° 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 19 22
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) Fees 220 } Paid 19

M. J. W. Jones
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 29 JUN. 1923
Assigned



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