

REPORT ON MACHINERY.

No. 13
WINDWARD, 28 1922
JUN 17

Received at London Office

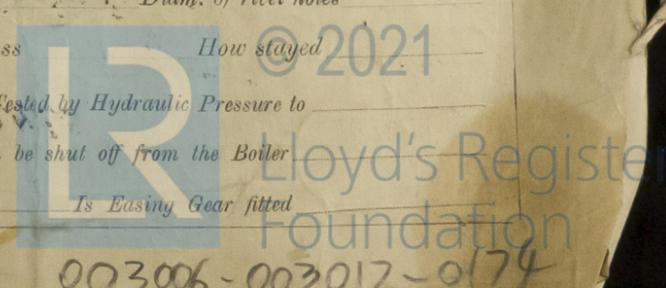
1914 Aug 11 When handed in at Local Office 25th Aug 22 Port of Paris
Survey held at St Denis s/ Seine Date, First Survey 19/11/20 Last Survey 9/8/ 1922
on the Engine No 2289 for "Type Marie-Louise Agriandi" (1200 H.P.) Tons } Gross ✓
Built at Caen By whom built Chantiers Navals S^s When built 1920-21 ✓
Size of made at St Denis s/ Seine By whom made Ateliers, Chantiers de la Loire when made 1922 ✓
Horse Power 192 ✓ Owners, French Government Port belonging to ✓
Horse Power as per Section 28 235.5 Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted ✓

RES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
Cylinders 460-760-1280 Length of Stroke 960 Revs. per minute 90 Dia. of Screw shaft as per rule 296 Material of Steel ✓
Screw shaft fitted with a continuous liner the whole length of the stern tube No ✓ Is the after end of the liner made water tight
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
the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓ If two
are fitted, is the shaft lapped or protected between the liners Yes ✓ Length of stern bush 15 1/2
Tunnel shaft as per rule 248 Dia. of Crank shaft journals as per rule 264 Dia. of Crank pin 264 Size of Crank webs 165 Dia. of thrust shaft under
as fitted 248 as fitted 264
264 Dia. of screw 4 7/15 Pitch of Screw 3 7/16 No. of Blades 4 State whether moveable No Total surface 6 7/8
Donkey pumps 2 Diameter of ditto 65 Stroke 480 Can one be overhauled while the other is at work Yes ✓
Large pumps 2 Diameter of ditto 65 Stroke 480 Can one be overhauled while the other is at work Yes ✓
Donkey Engines Sizes of Pumps ✓ No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room In Holds, &c. ✓

Injection sizes ✓ Connected to condenser, or to circulating pump ✓ Is a separate Donkey Suction fitted in Engine room & size ✓
Bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
Connections with the sea direct on the skin of the ship Are they Valves or Cocks
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
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
Pipes are carried through the bunkers How are they protected
Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

RES, &c.—(Letter for record) Manufacturers of Steel
Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Pressure Tested by hydraulic pressure to Date of test No. of Certificate
boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Strength of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell
Compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
Plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom Thickness of plates bottom
Pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Cross wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
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
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
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



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 4 bilge pump valves, 4 seats for same, 4 feed pump valves, 4 for same, 2 H.P. piston rings, 2 I.P. piston rings, 2 I.P. piston 39 condenser tubes with 78 ferrules, 1 propeller.



The foregoing is a correct description,

LE SOUS-DIRECTEUR

St. Denis

Ateliers & Chantiers de la Loire
Manufacturer.

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

Is the approved plan of main boiler forwarded herewith?

Dates of Examination of principal parts—Cylinders 16/3/21 Slides 16/3/21 Covers 16/3/21 Pistons 19/11/20
Connecting rods ditto Crank shaft ditto Thrust shaft 15/9/21 Tunnel shafts 15/9/21 Screw shaft 15/9/21 Propeller 15/9/21
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 supervision 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 the vessels Nos 12 to 18, built at Chantiers Navals Français under the special survey of the Society's Surveyor at Caen.

The present report is to be completed:—

- 1. As regards machinery, by the Society's Surveyor at Caen.
- 2. As regards boilers, which have been constructed at the Chantiers & Ateliers de la Loire, St. Denis, and surveyed by the Paris Office, reports on which have already been sent to the Committee (Nos 9, 10, 11).

The amount of Entry Fee ... £ : :
Special ... £ 23-11/- : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £s 230 : :
When applied for, 19/8/1922
When received, 31.8.22

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute FRI, 7 JAN 1927

Assigned Not for classing Committee

FRI 7 JAN 1927

See Caen No. 133



Lloyd's Register Foundation

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