

REPORT ON MACHINERY.

No. 1218

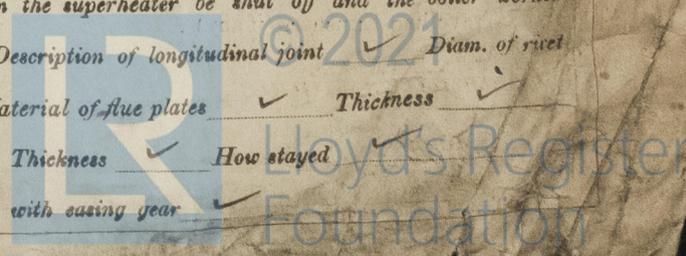
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Date of writing Report 28-6-21 When handed in at Local Office 28-6-21 Port of Nantes
 No. in Survey held at Nantes Date, First Survey 12-2-20 Last Survey 13.7.21 1921
 Reg. Book. 8281 on the S.S. "CAPITAINE ILLIAQUER" (Number of Visits 59) Gross 2017.54
 Master Le Gallo Built at Nantes-Chantenay By whom built Anc. Ch. Dubigeon When built 1920-1
 Engines made at Nantes By whom made A. & C. de la Loire, Nantes when made 1920
 Boilers made at Nantes & Indret By whom made do. & Indret Arsenal when made 1921
 Registered Horse Power Owners French Government Port belonging to Nantes
 Nom. Horse Power as per Section 28 193.187 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple exp. cut-off cond. No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 460 Length of Stroke 960 Revs. per minute 88 Dia. of Screw shaft 288 Material of screw shaft F. I. St.
 Is the 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
 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 good fit If two
 liners are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 1m. 170
 Dia. of Tunnel shaft 243 Dia. of Crank shaft journals 255 Dia. of Crank pin 256 Size of Crank webs 400x165 Dia. of thrust shaft under
 collars 256 Dia. of screw 4m. 260 Pitch of Screw 4m. 00 No. of Blades 4 State whether moveable no Total surface 5m². 72
 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 4 Sizes of Pumps 140x90x185 ang. fd. No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 3 100x100x110 service In Holds, &c. forehold 20 70 - after hold 20 65
 No. of Bilge Injections 1 sizes 155 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size
 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 none
 Are all connections with the sea direct on the skin of the ship yes 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 valves fitted with a spigot and brass covering plate yes
 What pipes are carried through the bunkers hull air pipes How are they protected wood covered
 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 24-11-20 of Stern Tube 22-11-20 Screw shaft and Propeller 24-11-20
 Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from main deck

BOILERS, &c.—(Letter for record S) Manufacturers of Steel supplied by the State, probably made in U.S.A.
 Total Heating Surface of Boilers 30m². 80 Is Forced Draft fitted no No. and Description of Boilers 2 Single-end Scotch
 Working Pressure 13 kilos. Tested by hydraulic pressure to 23 kilos. Date of test 1-4-21 No. of Certificate 57458
 Can each boiler be worked separately yes Area of fire grate in each boiler 4m². 40 No. and Description of Safety Valves to
 each boiler 2 Lockhart progress Area of each valve 280 Pressure to which they are adjusted 13 kilos Are they fitted with easing gear
 Smallest distance between boilers or uptakes and bunkers or woodwork 8 at strap Mean dia. of boilers 4m. 00 Length 3m. 175 Material of shell plates Steel
 Thickness 31 Range of tensile strength 42-50 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
 long. seams keble, I.S. Diameter of rivet holes in long. seams 33 Pitch of rivets 216.25 Lap of plates or width of butt straps 454
 Per centages of strength of longitudinal joint 94.84 Working pressure of shell by rules 13 k. 600 Size of manhole in shell 450 x 350
 Size of compensating ring 854 x 754 No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 1250
 Length of plain part top 16 Thickness of plates bottom 16 Description of longitudinal joint welded No. of strengthening rings 9
 Working pressure of furnace by the rules 13k. 13 Combustion chamber plates: Material Steel Thickness: Sides 15.5 Back 15.5 Top 15.5 Bottom 20
 Pitch of stays to ditto: Sides 195x190 Back 191.5x184 Top 190x190 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 15k. 7
 Material of stays Steel Diameter at smallest part 34 Area supported by each stay 37000 Working pressure by rules 14k. 2 End plates in steam space:
 Material Steel Thickness 24.5 Pitch of stays 470x380 How are stays secured 2 R. & W. Working pressure by rules 13k. 4 Material of stays Steel
 Diameter at smallest part 67 Area supported by each stay 178600 Working pressure by rules 14k. 6 Material of Front plates at bottom Steel
 Thickness 25 Material of Lower back plate Steel Thickness 25 Greatest pitch of stays 480 dia. Working pressure of plate by rules 18k. 2
 Diameter of tubes 89 Pitch of tubes 120x120 Material of tube plates Steel Thickness: Front 25 Back 20 Mean pitch of stays 240
 Pitch across wide water spaces 360 Working pressures by rules 15k. 2 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 2x225x90 Length as per rule 24.5 Distance apart 190 Number and pitch of stays in each 3 190
 Working pressure by rules 21k. Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear



VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description				
Made at	By whom made		When made	Where fixed	
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with casing gear	If steam from main boilers can enter the donkey boiler			Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:— 2 top ends (one with bolts)—
 1 Cotton end complete with bolts— 2 main bearing bolts—
 1 set 6 coupling bolts— 8 feed & crepe pump valves— 2 H, 2 MP &
 2 BP piston rings— 1 propeller— 39 condenser tubes— Spring

The foregoing is a correct description,

Manufacturer.

A. Lamy

Dates of Survey while building	During progress of work in shops --	1920. Feb. 26 - Mar. 29. Apr. 23-27. May 7-14-27. June 14
	During erection on board vessel ---	Sept. 14-1-29. Oct. 1-7-12-15-20-29. Nov. 5-16-22-26
	Total No. of visits	July 4. 7. 8. 13. Total 59

Dates of Examination of principal parts—Cylinders 14-15-10-20 Slides 15-20-10-20 Covers 15-
 Connecting rods 25-11-20 Crank shaft 29-10-20 Thrust shaft 13-8-20 Tunnel shafts 13-8-
 Stern tube 22-11-20 Steam pipes tested 10-6-21 Engine and boiler seatings 21-10
 Completion of pumping arrangements Boilers fixed 2-5-21
 Main boiler safety valves adjusted 27-11-21 Thickness of adjusting washers S.B.A.
 Material of Crank shaft F.I.S. Identification Mark on Do. 95 Material of Thrust shaft
 Material of Tunnel shafts F.I.S. Identification Marks on Do. 95 Material of Screw shafts
 Material of Steam Pipes Solid drawn Steel Test pressure 3

General Remarks (State quality of workmanship, opinions as to class, &c. The material of these engines and boilers are satisfactory in accordance with the approved plan otherwise with the Rules and Secretary. I am of the opinion that they are eligible + L.M.C. in the Register books having been surveyed during their construction. This engine is surface-condensing with circulating & crepe pumps worked from the H crosshead. A horizontal Watson's evaporator with pump, a separate boiler service pump & auxiliary feed pumps steam reversing. This engine is a duplicate of nos. 421-3-5 - Nantes 1167, 1171 and 1180—

Certificate (if required) to be sent to Committee's Minute.

The amount of Entry Fee	£ 3 : 0	When applied for,
Special	£ 48 : 5	1. 7. 21
Donkey Boiler Fee	£	When received,
Travelling Expenses (if any)	£ 70 francs	7. 7. 21

*G. Demarest for self,
 G. A. Lamy & C. le Seven*
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute
 Assigned

TUE. JUL. 25 1921

FRI. JUL. 22 1921

+ L.D.B. 721

as non subject