

## REPORT ON MACHINERY.

No. 4810.

Received at London Office

MON. SEP. 6 1920

Date of writing Report *Aug 28* 19 *20* When handed in at Local Office *Aug 31* 19 *20* Port of *Trieste*  
 No. in Survey held at *Dussinpeckers, Trieste* Date, First Survey *Jan 2* Last Survey *Aug 27* 19 *20*  
 Reg. Book. on the *Machinery of the Steamer S.S. CAPREPA* (Number of Visits *21*)  
 Master *Dussinpeckers* Built at *Dussinpeckers* By whom built *N.O. Martinovich* 16°  
 Engines made at *Piraeus* By whom made *not known* When built *1920*  
 Boilers made at *Genoa* By whom made *N. Odero fu A.* when made *1904*  
 Registered Horse Power *3340* Owners *Poe & Mar. Luannaro* Port belonging to *Trieste*  
 Nom. Horse Power as per Section 28 *3340* Is Refrigerating Machinery fitted for cargo purposes *no.* Is Electric Light fitted *no.*

ENGINES, &c.—Description of Engines *Compound Surf. Condensing* No. of Cylinders *2* No. of Cranks *2*  
 Dia. of Cylinders *12 1/8 & 22 1/8* Length of Stroke *16* Revs. per minute *115* Dia. of Screw shaft *5 1/2* as per rule *5 1/2* Material of *Steel*  
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes* 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 *2 Lines* 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 *no.* If two  
 liners are fitted, is the shaft lapped or protected between the liners *no.* Length of stern bush *21"*  
 Dia. of Tunnel shaft *4 1/2* as per rule *4 1/2* Dia. of Crank shaft journals *4 3/8* as per rule *4 3/8* Dia. of Crank pin *4 9/16* Size of Crank webs *3 x 8 1/2* Dia. of thrust shaft under  
 collars *4 7/16* Dia. of screw *7 3/8* Pitch of Screw *6-10* No. of Blades *4* State whether moveable *no* Total surface *—*  
 No. of Feed pumps *1* Diameter of ditto *2"* Stroke *9"* Can one be overhauled while the other is at work *✓*  
 No. of Bilge pumps *1* Diameter of ditto *2"* Stroke *9"* Can one be overhauled while the other is at work *✓*  
 No. of Donkey Engines *1 Single* Sizes of Pumps *2 1/2 x 6"* No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room *1 suction 2 1/4 Bore* In Holds, &c. *1 in each Hold 2 1/4 Bore, 1 in Tunnel*  
 No. of Bilge Injections *1* sizes *2 1/4"* Connected to condenser, or to circulating pump *no* Is a separate Donkey Suction fitted in Engine room & size *Yes 2"*  
 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 *no*  
 Are all connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *Valves & Cocks*  
 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 *below*  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel *Yes* Are the Blow Off Cocks fitted with a spigot and brass covering plate *Yes*  
 What pipes are carried through the bunkers *none* How are they protected *—*  
 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*  
 Is the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *Top of Eng. Room.*

BOILERS, &c.—(Letter for record *S*) Manufacturers of Steel *Report*  
 Total Heating Surface of Boilers *1135* Is Forced Draft fitted *NO* No. and Description of Boilers *1 single ended*  
 Working Pressure *85 lbs.* Tested by hydraulic pressure to *145 lbs.* Date of test *9/8/20* No. of Certificate *—*  
 Can each boiler be worked separately *Yes* Area of fire grate in each boiler *776 2* No. and Description of Safety Valves to  
 each boiler *2 Direct Spring* Area of each valve *4 1/2* Pressure to which they are adjusted *90 lbs.* Are they fitted with easing gear *Yes*  
 Smallest distance between boilers or uptakes and bulkheads *6"* 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 *—* 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 *—* Thickness of plates *—* 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 *—*

UPERHEATER. Type *—* Date of Approval of Plan *—* Tested by Hydraulic Pressure to *—*  
 of Test *—* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *—*  
 of Safety Valve *—* Pressure to which each is adjusted *—* Is Easing Gear fitted *—*

D084387-028952-0243



No

*If so, is a report now forwarded?*

2 each of top and bottom end & main bearing  
coupling bolts and nuts, iron of various  
valves, assorted bolts and nuts.

*The foregoing is a correct description,*

*Manufacturer.*

Dates of Survey while building	<div> <div>During progress of work in shops - -</div> <div>During erection on board vessel - -</div> <div>Total No. of visits</div> </div> <div> <div><u>1920</u> Jan 2, 30, Mar 4, 10, 11, 12, 21, 22, 28, 29, 31, June 4, 5, 22, 30, July 3, Aug 6, 9, 10, 13, 21, 27,</div> <div>twenty one</div> </div>	Is the approved plan of main boiler forwarded herewith <input checked="" type="checkbox"/>
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Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 30/1/20 Slides 30/1/20 Covers 30/1/20 Pistons 30/1/20 Rods 30/1/20  
Connecting rods 30/1/20 Crank shaft 30/1/20 Thrust shaft 30/1/20 Tunnel shafts 2/30/1/20 Screw shaft 2/1/20. Propeller 30/1/20  
Stern tube 30/1/20 Steam pipes tested 10-8-20 Engine and boiler seatings 30/1/20. Engines holding down bolts 11/5/20.  
Completion of pumping arrangements 21/5/20. Boilers fixed 28-5-20 Engines tried under steam 13-8-20  
Completion of fitting sea connections 30/1/20 Stern tube 30/1/20 Screw shaft and propeller 30/1/20.  
Main boiler safety valves adjusted 27/7/20. Thickness of adjusting washers 1 3/4 in. 1/2 in.  
Material of Crank shaft Steel Identification Mark on Do. ✓ Material of Thrust shaft Steel Identification Mark on Do. ✓  
Material of Tunnel shafts Steel Identification Marks on Do. Material of Screw shafts Steel Identification Marks on Do.  
Material of Steam Pipes Copper. Test pressure 15 Bar.

*Is an installation fitted for burning oil fuel*

No.

*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.)

built under special survey. They have been examined throughout and found or placed in good condition, satisfactory fired on coal and tried under steam and the case is eligible in our opinion for the notation LMC 8-20 in red, Engines made 1904 Fitted 1920, Boiler, made 1909 Fitted 1920, Working Pressure 85 lbs, Safe surface 34 sq, Heating surface 1130, Screw Shaft new 8-20. 2 Compacted furnaces. The steam dome now fitted in accordance with the sketch enclosed. The boiler afterwards tested by water to 745 lbs sq in found tight & satisfactory.

It is submitted that

It is submitted that  
this vessel is eligible for  
~~THE~~ RECORD. LMC. 8.20

Engines made 1904 refitted 1920 2cy 12 $\frac{1}{16}$  22 $\frac{1}{16}$  - 16 40NHP  
Boilers made 1909 refitted 1920  
ISB. 2cf GS 34 HS 1135 85 16

RCM

17/9/20

The amount of Entry Fee ...	£ 80	:	When applied for,
Special	£ 600	:	Aug 27 1920
Donkey Boiler Fee ...	£ 144	:	When received,
Travelling Expenses (if any) £	:	:	Aug 27 1920

## Committee's Minute

TUE. SEP. 21 1920

*Assigned*

L.H. 820  
E made 1904 revised 1920  
B made 1909 revised 1920

B. Ritchie & H. Hayarick  
Engineer Surveyor to Lloyd's Register of Shipping.

720  
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Lloyd's Register  
Foundation