

# REPORT ON MACHINERY.

No. 5167

Port of Marseilles

Received at London Office MON APR 12 1920

Survey held at Newcastle and Marseilles Date, first Survey 22<sup>nd</sup> Dec. 1919 Last Survey April 1<sup>st</sup> 1920

the Steamer War Halton Now named Saint Tropez (Number of Visits 15) Tons { Gross 2251.03  
Net 1352.97

Built at Toronto By whom built Polson Iron Works Ltd When built 1919

at Toronto By whom made Polson Iron Works Ltd when made 1918

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orse Power 14.P. 1250 N.A.P. 144.5 Owners Soc Francaise d'Armement Port belonging to Marseilles

Power as per Section 28 413.276 Is Refrigerating Machinery fitted No. Is Electric Light fitted Yes.

Description of Engines Triple expansion Surface condensing No. of Cylinders 3 No. of Cranks 3

Lengths 20 1/2 - 33 - 54 Length of Stroke 36 Revs. per minute 85 Dia. of Screw shaft 11 1/2 Material of screw shaft Steel

shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

eller boss Yes If the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the part

bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If two

fted, is the shaft lapped or protected between the liners Yes Length of stern bush 3'-6"

el shaft as per rule 10 1/4 Dia. of Crank shaft journals as per rule 10 1/4 Dia. of Crank pin 11 Size of Crank webs 21 x 8 x 3 1/2 Dia. of thrust shaft under

3/4 Dia. of screw 12 1/2 Pitch of screw 14.5 No. of blades 4 State whether moveable No Total surface 68.5

pumps 2 Diameter of ditto 12 x 7 Stroke 12 Simple Can one be overhauled while the other is at work Yes

pumps 2 Diameter of ditto 6 x 5 1/2 Stroke 6 Duplex Can one be overhauled while the other is at work Yes

oy Engines 2 Ballast & Sanitary Sizes of Pumps 7 1/2 x 7 x 10 - 5 1/2 x 4 3/4 x 5 Duplex No. and size of Suctions connected to both Bilge and Donkey pumps

oom 2 - 3.2 Diameter In Holds, &c. Aft 3 - 3.2 Fore 2 - 3.2

jections 1 sizes 6" dia Connected to condenser or to circulating pump Yes Is a separate donkey suction fitted in Engine room & size Yes 3.2

ge 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

ctions with the sea direct on the skin of the ship No Are they Valves or Cocks Valves except Boiler Blow-downs

d sufficiently high on the ship's side to be seen without lifting the stokehold plates No Are the discharge pipes above or below the deep water line below

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

are carried through the bunkers Which exhaust through bridge How are they protected Asbestos cotton

s, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times Yes

e suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges Yes

stern tube, propeller, screw shaft, and all connections examined in dry dock Dec. 22 1919 Is the screw shaft tunnel watertight Yes

with a watertight door Yes worked from line of weather deck

, &c.— (Letter for record (S) Total Heating Surface of Boilers 2173 sq ft each Is forced draft fitted Yes

escription of Boilers 2 return tube Multitubular Working Pressure 180 lbs Tested by hydraulic pressure to ✓

Can each boiler be worked separately Yes Area of fire grate in each boiler 57.75 sq ft No. and Description of safety valves to

2 Spring loaded Area of each valve 3.5 dia Pressure to which they are adjusted ✓ Are they fitted with easing gear Yes

nce between boilers or uptakes and bunkers 6" steel Mean dia. of boilers 14' Length 12.1' Material of shell plates Steel

1/2 Range of tensile strength ✓ Are they flanged ends Descrip. of riveting: cir. seams double long. seams treble

rivet holes in long. seams 1 3/8" Pitch of rivets 9" Lap of plates or width of butt straps 20 5/8"

of strength of longitudinal joint rivets 90.3 Working pressure of shell by rules 205 lbs. Size of manhole in shell 16" x 12"

usating rings End plates flanged No. and Description of Furnaces in each boiler 3 Corrugated Material Steel Outside diameter 46.5"

in part top Thickness of plates 5" Description of longitudinal joint ✓ No. of strengthening rings ✓

sure of furnace by the rules 216 lbs Combustion chamber plates: Material Steel Thickness: Sides 1 1/8" Back 9 1/8" Top 1 1/8" Bottom 1 1/8"

to ditto: Sides 6.5" Back 6" Top 6.5" If stays are fitted with nuts or riveted heads Riveted Working pressure by rules 288 lbs sides

stays Steel Diameter at smallest part 1 1/4" Area supported by each stay 36" back Working pressure by rules back 277 End plates in steam space:

el Thickness 7/8 double Pitch of stays 14 1/2" How are stays secured Nuts outside Working pressure by rules 322 lbs Material of stays Steel

smallest part 2 7/8" Area supported by each stay 217" Working pressure by rules 311 lbs Material of Front plates at bottom Steel

Material of Lower back plate Steel Thickness 13 1/16" Greatest pitch of stays 12 1/2" Working pressure of plate by rules 369 lbs

ubes 2 3/4" Pitch of tubes 3 5/8" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 9"

wide water spaces 13 3/4" Working pressures by rules 248 lbs. Girders to Chamber tops: Material Steel Depth and

irder at centre 12" x 5 1/8" Length as per rule ✓ Distance apart 9 3/8 Centre Number and pitch of Stays in each 4 x 6 1/8"

ssure by rules 269 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked

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

Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓

h rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓

asure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓



**DONKEY BOILER**— No. *None*, Description \_\_\_\_\_  
 Made at \_\_\_\_\_ By whom made \_\_\_\_\_ When made \_\_\_\_\_ Where fixed \_\_\_\_\_  
 Working pressure tested by hydraulic pressure to \_\_\_\_\_ No. of Certificate \_\_\_\_\_ Fire grate area \_\_\_\_\_ Description of safety valves \_\_\_\_\_  
 No. of safety valves \_\_\_\_\_ Area of each \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ If fitted with easing gear \_\_\_\_\_ If steam from main \_\_\_\_\_  
 enter the donkey boiler \_\_\_\_\_ Dia. of donkey boiler \_\_\_\_\_ Length \_\_\_\_\_ Material of shell plates \_\_\_\_\_ Thickness \_\_\_\_\_  
 strength \_\_\_\_\_ Descrip. of riveting long. seams \_\_\_\_\_ Dia. of rivet holes \_\_\_\_\_ Whether punched or drilled \_\_\_\_\_ Pitch of \_\_\_\_\_  
 Lap of plating \_\_\_\_\_ Per centage of strength of joint \_\_\_\_\_ Rivets \_\_\_\_\_ Thickness of shell crown plates \_\_\_\_\_ Radius of do. \_\_\_\_\_ No. of Stays to \_\_\_\_\_  
 Dia. of stays \_\_\_\_\_ Diameter of furnace Top \_\_\_\_\_ Bottom \_\_\_\_\_ Length of furnace \_\_\_\_\_ Thickness of furnace plates \_\_\_\_\_  
 joint \_\_\_\_\_ Thickness of furnace crown plates \_\_\_\_\_ Stayed by \_\_\_\_\_ Working pressure of shell by \_\_\_\_\_  
 Working pressure of furnace by rules \_\_\_\_\_ Diameter of uptake \_\_\_\_\_ Thickness of uptake plates \_\_\_\_\_ Thickness of water tubes \_\_\_\_\_

**SPARE GEAR.** State the articles supplied:— *As per rule*

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - ✓  
 { During erection on board vessel - - ✓  
 Total No. of s \_\_\_\_\_

Is the ~~approved~~ plan of main boiler forwarded herewith \_\_\_\_\_  
 " " " donkey " " " No

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

*The workmanship is good quality*

Certificate (if required) to be sent to \_\_\_\_\_

The amount of Entry Fee. *£160.00* : When applied for, \_\_\_\_\_  
 Special *£1900.00* : \_\_\_\_\_  
 Donkey Boiler Fee .. .. £ : \_\_\_\_\_  
 Travelling Expenses (if any) £ *60.00* : \_\_\_\_\_  
 When received, \_\_\_\_\_

*A.P. Jones*

Engineer Surveyor to Lloyd's Register of British & Foreign

Committee's Minute

Assigned

FRI. MAY. 14 1920

FRI. MAY. 28 1920

FRI. JUN. 18 1920

FRI. MAY. 21 1920

TUE. OCT. 26 1920

FRI. DEC. 3 1920

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Dear Sir  
 letter  
 TROPEZ  
 with a  
 The Su  
 Office

C.F. Red  
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