

Rpt. 4. **REPORT ON MACHINERY.** No. 0432

Received at London Office

Date of writing Report 10 April 1922 When handed in at Local Office 19 Port of Amsterdam

No. in Survey held at Delfzijl & Groningen Date, First Survey 23 Nov 1920 Last Survey 29 March 1922

Reg. Book. 3044 on the Twin Screw steamer "PRESIDENT COMEZ" (Number of Visits 17)

Master Built at Groningen By whom built Scheepwerf "Gidema" Rotterdam Gross 1133 Tons Net 544

Engines made at Delfzijl By whom made N.V. Machinefabriek "DOK" when made 1922

Boilers made at Dordrecht By whom made Mach. fabri. "De Buisboek" when made 1921

Registered Horse Power Owners Bataafsche Petroleum M.C. Port belonging to Willemstad

Nom. Horse Power as per Section 28 134 116 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Twin Triple exp. No. of Cylinders 3 each No. of Cranks 3 each

Dia. of Cylinders 11 7/8" 18 1/8" 29 1/8" Length of Stroke 19 1/8" Revs. per minute 140 Dia. of Screw shaft as per rule 166 mm Material of screw shaft SWS

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 Yes 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 Yes If two

liners are fitted, is the shaft lapped or protected between the liners Lapped between liners Length of stern bush 640 in braches 30 x 550 mm in tube

Dia. of Tunnel shaft as per rule 145 mm Dia. of Crank shaft journals as per rule 151 mm Dia. of Crank pin 155 mm Size of Crank webs 103 x 206 Dia. of thrust shaft under

collars 155 mm Dia. of screw 250 mm Pitch of Screw 250 mm No. of Blades 4 State whether moveable No Total surface 1,46 m<sup>2</sup>

No. of Feed pumps 1 Diameter of ditto 55 mm Stroke 220 mm Can one be overhauled while the other is at work Yes

No. of Bilge pumps 1 Diameter of ditto 55 mm Stroke 220 mm Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 4 1/2" x 2 3/4" x 4" x 5 1/2" x 4 3/4" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 2 x 2 1/2" : 2 x 3 1/2" ; oil well in boiler room 2" In Holds, &c. in oil tanks 1 x 8" ; Forepeak & Deep tank = resp.

1 x 4" and 2 x 4" Pump room 3 x 3 1/4" No. of Bilge Injections 2 sizes 3 1/2" Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes 1 x 2 1/2"

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 Yes

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 Yes

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 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 None Is it fitted with a watertight door worked from

OILERS, &c.—(Letter for record ) Manufacturers of Steel kindly see Rotterdam report Boiler No. 20 : 14 May 1921

Total Heating Surface of Boilers 2140 Is Forced Draft fitted No No. and Description of Boilers 2 S.B.

Working Pressure 192 lbs. 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 2 Spring loaded Area of each valve 60 mm Pressure to which they are adjusted 192 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 4 feet from aft of boiler 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

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.



IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied :-

One crank-shaft, one propeller shaft, 1 pair of connecting rod brasses & 1 pair of crosshead brasses, 1 set of link brasses, 1 eccentric strap complete all with bolts & nuts 1 air pump rod, 1 circulating pump rod, 1 feed & 1 bilge pump plunger & main-bearing bolts, 1 set of coupling bolts, 1 set of feed & bilge pump valves, 1 set of piston springs & quantity assorted bolts & nuts Iron various sizes

The foregoing is a correct description,

*R. N. Steinhilber*

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 23 Nov 1920 - 1921 - 10 Feb 24 Feb 9 March 20 April 5 May 26 May 30 Aug 9 Nov 30 Nov 1922 Jan 10 & 24 Feb 21-22-23 March 29  
During erection on board vessel ---  
Total No. of visits 17.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts - Cylinders 24 Feb 3 May Slides 20 April 3 May Covers 20 April 3 May Pistons 20 April 3 May Rods 10 Feb 30 Aug  
Connecting rods 10 Feb Crank shaft 3 May 9 Nov Thrust shaft 3 May 9 Nov Tunnel shafts 3 May 9 Nov Screw shaft 3 May 9 Nov Propeller 9 Nov  
Stern tube 9 Nov Steam pipes tested 21 Feb Engine and boiler seatings Jan 10 24 Engines holding down bolts 24 Jan  
Completion of pumping arrangements Jan 24 Boilers fixed Dec 10 Engines tried under steam 29 March  
Completion of fitting sea connections 9 Nov Stern tube 9 Nov Screw shaft and propeller 9 Nov  
Main boiler safety valves adjusted 29 March Thickness of adjusting washers Pack = 11 mm x 10 1/2 Stb. 12.5 x 14 mm  
Material of Crank shaft SMS Identification Mark on Do. C 24-2-21 Lloyd's 3  
Material of Thrust shaft SMS Identification Mark on Do. C 24-2-21 Lloyd's 3  
Material of Tunnel shafts SMS Identification Marks on Do. 454-460 Lloyd's 3  
Material of Screw shafts SMS Identification Marks on Do. 454-460 Lloyd's 3  
Material of Steam Pipes Steel Test pressure 576 lbs C 24-6-21 Lloyd's 3

Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes

Have the requirements of Section 49 of the Rules been complied with Yes

Is this machinery duplicate of a previous case no If so, state name of vessel Yes

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

This vessel's Machinery has been fitted aboard in accordance with the Society's rules and as per approved plans. Material duly tested. Fired engines under full working conditions found working satisfactory and without heating whatever. Spare gear checked found complete. I am of opinion that this vessel may be found eligible to be recorded in the Society's Register book. LMC 3.22.

Certificate (if required) to be sent to Society's Underwriter

The amount of Entry Fee ... £ 30.00  
Special 3/5 ... £ 342  
Donkey Boiler Fee ... £  
Travelling Expenses (if any) £ 342

When applied for, 19  
When received, 20/4/22

*R. J. Burdop*  
Engineer Director to Lloyd's Register of Shipping.

Committee's Minute

Assigned

MACHINERY CERT WRITTEN

+ L.M.C. 4.22

FRI. 23 FEB 1923 TUES. 5 JUL 1927

FRI. 17 SEP 1926

FRI. 1 JUN 1923 TUES. 7 APR 1925

FRI. 2 JAN 1925

TUES. 21 FEB 1928



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Rpt. 5a.  
Date of writing  
No. in Reg. Book.  
Master  
Engines ma  
Boilers ma  
Registered  
MULTI  
(Letter for  
Boilers Z  
No. of Cer  
safety valve  
Are they fit  
Smallest di  
Material of  
Descrip. of  
Lap of pla  
rules 20  
boiler 2  
Description  
plates: Ma  
Top 7 1/2 x 8  
smallest par  
Pitch of sta  
Area suppor  
Lower back  
Pitch of tub  
water space  
girder at ce  
Working pr  
Dimension  
Date of Survey