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# REPORT ON MACHINERY.

No. 2823

MON. OCT. 14, 1918

Received at London Office

REC'D *Sept. 19-1918*

Date of writing Report *Sept 12<sup>th</sup> 1918* When handed in at Local Office *Sept 12<sup>th</sup> 1918* Port of *Sau Francisco*

No. in Survey held at *Los Angeles* Date, First Survey *June 6<sup>th</sup>* Last Survey *Sept 3<sup>rd</sup> 1918*

Reg. Book. on the *S.S. "West Galata" (Los Angeles S.B. & D.D. Co. N-6)* (Number of Visits *8*)

Gross Tons *3898*  
Net Tons *4430*

Master *W. A. Curtis* Built at *Sau Pedro Cal* By whom built *Los Angeles S.B. & D.D. Co* When built *1918*

Engines made at *Pittsburg Pa* By whom made *Westinghouse Electric & Mfg Co* when made *1918*

Boilers made at *Phoenixville Pa* By whom made *Heine Boiler Works* when made *1918*

Registered Horse Power *600 670* Owners *U.S. Shipping Board* Port belonging to *Los Angeles*

Shaft Horse Power at Full Power *3000* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

TURBINE ENGINES, &c.—Description of Engines *Double Reduction Gear Turbines* No. of Turbines *Two (1-H.P. 1-L.P.)*

Diameter of Rotor Shaft Journals, H.P. *L.P.* Diameter of Pinion Shaft

Diameter of Journals Distance between Centres of Bearings Diameter of Pitch Circle

Diameter of Wheel Shaft Distance between Centres of Bearings Diameter of Pitch Circle of Wheel

Width of Face Diameter of Thrust Shaft under Collars Diameter of Tunnel Shaft as per rule *12.81*  
as fitted *13.25*

No. of Screw Shafts *One* Diameter of same as per rule *14.08 14.22* as fitted *14.5* Diameter of Propeller *17-1/4* Pitch of Propeller *12-4*

No. of Blades *4* State whether Moveable *Yes* Total Surface *96.6 sq* Diameter of Rotor Drum, H.P. *L.P.* Astern

Thickness at Bottom of Groove, H.P. *L.P.* Astern Revs. per Minute at Full Power, Turbine *3655* Propeller *100*

*Screw Shaft fitted with continuous liner.*

## PARTICULARS OF BLADING.

	H.P.			L.P.			ASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION									
D									
D									
H									
H									
H									
H									
H									

No. and size of Feed pumps *2 - 12" x 8" x 18"*

No. and size of Bilge pumps *3 - 1-12" x 10" x 12" - 1-12" x 8" x 12" - 1-6" x 6" x 6"*

No. and size of Bilge suction in Engine Room *4 - 3 1/2"*

Forward copper dam *1-3"* After copper dam *1-3"* In Holds, &c. *Four peak 1-3" N°1 hold 2-3 1/2" N°2 hold 2-3 1/2" N°3 hold 2-3 1/2" N°4 hold 2-3 1/2" After well 1-3 1/2" After peak 1-3"*

No. of Bilge Injections *1* sizes *12"* Connected to condenser, or to circulating pump *Cir pump* Is a separate Donkey Suction fitted in Engine Room & size *Yes 3 1/2"*

Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes*

Are all connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *Valves*

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 *Both*

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 *Yes* Is it fitted with a watertight door *Yes* worked from *Top platform of E.R.*

MILERS, &c.—(Letter for record *5*) Manufacturers of Steel *Illinois Steel Co*

Total Heating Surface of Boilers *11600 sq* Is Forced Draft fitted *No* No. and Description of Boilers *See Phila Rpt N° 2896 4 W.T.*

Working Pressure *200 lbs* Tested by hydraulic pressure to *400 lbs* Date of test *August 13<sup>th</sup>* No. of Certificate

Can each boiler be worked separately *Yes* Area of fire grate in each boiler No. and Description of Safety Valves to

Each boiler *2 Spring loaded* Area of each valve *9.62 sq* Pressure to which they are adjusted *200 lbs* Are they fitted with easing gear *Yes*

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: *circ. seams*

Working seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Water Cup rivets Working pressure of shell by rules Size of manhole in shell

Percentage of strength of longitudinal joint plates

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 Diameter 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

Diameter 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 Diameter of rivet holes Pitch of rivets

Working pressure of shell by rules Crown plates: Thickness How stayed

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