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REPORT ON MACHINERY.

No.

REC'D NEW YORK April 1 1918

Received at London Office

of writing Report 19 When handed in at Local Office 19 Port of Pittsburgh Pa. Date, First Survey 8-11-17 Last Survey 11-3-18 19
in Survey held at Pittsburgh Pa. Date, First Survey 8-11-17 Last Survey 11-3-18 19
on the Steel S.S. (Los Angeles S.B.C. S.S. No 1) (Number of Visits) Gross Tons Net Tons

Built at Los Angeles, Cal. By whom built Los Angeles Shipb'g Co. When built 1918
Engines made at East Pittsburgh Pa. By whom made Westinghouse & M. Co. Machine Works when made 1918
Boilers made at By whom made when made
Horse Power 600-670 Owners Port belonging to
Horse Power at Full Power 3000 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

TURBINE ENGINES, &c.—Description of Engines Double Reduction Geared Turbines No. of Turbines Two { One H.P. One L.P.
Diameter of Rotor Shaft Journals, H.P. 4 1/2" L.P. 4 1/2" Flex. Shaft 2 7/8"
Diameter of Pinion Shaft 1st Red. 4.74" 2nd Red. 8.99 x 4 3/4 6 one
Diameter of Journals 1st Red. 4.74" 2nd Red. 12.27 (37 teeth)
Distance between Centres of Bearings 1st Red. 19 7/8" 2nd Red. 12.27 (37 teeth)
Diameter of Pitch Circle 1st Red. 5.938 (35 teeth) 2nd Red. 12.27 (37 teeth)
Diameter of Wheel Shaft 13" Distance between Centres of Bearings 8'-0 1/2" Diameter of Pitch Circle of Wheel 2nd Red. 51.404 (194 teeth)
Diameter of Thrust Shaft under Collars 20" Kingsbury thrust bearing at forward end of large shaft
Diameter of Tunnel Shaft as per rule as fitted
Diameter of Propeller Pitch of Propeller
Diameter of Rotor Drum, H.P. 17" L.P. 24" Impulse HP 29 1/2" L.P. 27 1/2"
Revs. per Minute at Full Power, Turbine 3655 Propeller 100

PARTICULARS OF BLADING.

	H. P.			All Reaction. L. P.			All Impulse. 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.
Impulse	1 3/4"	33 3/8"	2	3"	30"	3	HP 1 3/4"	33 3/8"	2
Reaction	2"	21"	8	4"	32"	2	L.P. 2 1/8"	36"	2
"	3"	23"	6	5"	34"	1			
"				6"	36"	4			
"									
"									
"									
"									
"									

and size of Feed pumps
and size of Bilge pumps
and size of Bilge suction in Engine Room
In Holds, &c.
of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine Room & size
all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible
all connections with the sea direct on the skin of the ship Are they Valves or Cocks
they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
at pipes are carried through the bunkers How are they protected
all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel
Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Working Pressure 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 Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
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: 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 plates
Size of compensating ring No. and Description of Furnaces in each Boiler Material Outside diameter
Length of plain part top crown Thickness of plates Description of longitudinal joint No. of strengthening rings bottom
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

