

REPORT ON MACHINERY.

3069
No. 15622

Received at London Office
Date of writing Report 19 When handed in at Local Office 31st Dec 1918 Port of Philadelphia Pa.
No. in Survey held at Schmitz & Co. Date, First Survey 2nd July 1918. Last Survey 30th Dec 1918
Reg. Book. on the STEEL SCREW STEAMER "SACCARAPPA" (Number of Visits 66)

Master A. H. L. Allen Built at Philadelphia Pa. By whom built American International Corp. When built 1918.
Engines made at Schmitz & Co. By whom made General Electric Company when made 1918
Boilers made at Bayonne N.J. By whom made Babcock & Wilcox Co. when made 1918.
NOMINAL Registered Horse Power 600. Owners Emergency Fleet Corporation. Port belonging to Philadelphia
Shaft Horse Power at Full Power 2500 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

TURBINE ENGINES, &c.—Description of Engines Turbine (No. 13501) No. of Turbines One
Diameter of Rotor Shaft Journals, H.P. 8" L.P. 7" Diameter of Pinion Shaft H.S. PINION 4" L.S. PINION 2"
Diameter of Journals "GEAR 18" Distance between Centres of Bearings "GEAR 18" Diameter of Pitch Circle "GEAR 17.88"
Diameter of Wheel Shaft 14" Distance between Centres of Bearings L.S. PINION 6 1/4" Diameter of Pitch Circle of Wheel "GEAR 34.058"
Diameter of Face 20.44" Diameter of Thrust Shaft under Collars 13.25" Diameter of Tunnel Shaft as per rule 12.48" as fitted 12.635"
Diameter of Screw Shafts as per rule 14.5" as fitted 14.5" Diameter of Propeller 17'-0" Pitch of Propeller 13'-9"
State whether Moreable no. Total Surface 98.86 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 2234 Propeller 90

PARTICULARS OF BLADING.

	H.P.			L.P.			ASTERN.		
	ACTIVE HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.	ACTIVE HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION	75-125	2'-11 1/2"	2				8125-1.5	2'-3"	2
"	625	3'-9"	1				3.375	2'-3"	1
"	125	3'-10 1/2"	1						
"	2.5	4'-0"	1						
"	6.0	4'-2"	1						
"									
"									
"									

and size of Feed pumps Two 10" x 6" x 24"
and size of Bilge pumps Two 12" x 8 1/2" x 12" and 10" x 12" x 12"
and size of Bilge suction in Engine Room Two - 3 1/2" Dia. Thrust valves 1-23" Fire room Two - 3 1/2" Dia.
One - 3 1/2", No. 5 one - 3 1/2", Tunnel well one - 3 1/2" In Holds, &c. No. 1 - Two - 3 1/2", One - 2 1/2", No. 2 - Two - 3 1/2", No. 3 - Two - 3 1/2"
Bilge Injections one sizes 10" Connected to condenser, or to circulating pump pump. Is a separate Donkey Suction fitted in Engine Room & size yes - 3 1/2"
All the bilge suction pipes fitted with roses yes. Are the roses in Engine room always accessible yes.
All connections with the sea direct on the skin of the ship yes. Are they Valves or Cocks both.
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.
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.
Pipes are carried through the bunks none. How are they protected.
All Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes.
The Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes.
Screw Shaft Tunnel watertight yes. Is it fitted with a watertight door yes. worked from upper engine platform.

REPORT 5
MANUFACTURERS, &c.—(Letter for record (S)) Manufacturers of Steel
Heating Surface of Boilers 8706 Is Forced Draft fitted yes No. and Description of Boilers
Working Pressure 200 lb Tested by hydraulic pressure to Date of test No. of Certificate
Each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
Boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Least distance between boilers or uptakes and bunks or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Advantages of strength of longitudinal joint Working pressure of shell by rules Size of manhole in shell
Compensating ring No. and Description of Furnaces in each Boiler Material Outside diameter
87% 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
of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Area supported by each stay Working pressure by rules Material of Front plates at bottom
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Working pressures by rules Girders to Chamber tops: Material Depth and
Length as per rule Distance apart Number and pitch of stays in each
Steam dome: description of joint to shell % of strength of joint Diameter
Description of longitudinal joint Diameter of rivet holes Pitch of rivets
Crown plates: Thickness How stayed

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