

REC'D NEW YORK APR 15 1957

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Rpt. 9

Date of writing report April 9th, 1957. Received London Port Newport News, Va. No. 7582. Survey held at Newport News, Va. No. of visits 8. First date March 19, 1957 Last date March 25, 1957

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 76772 Name S.S. "SANTA MARINA" Gross tons 7164 Date of build 1943-11 Owners Araucana Compania Armadora S. Managers Port of Registry Panama. Engines made Tto. By John Ingles Co. Ltd. Type Recip. steam

No. of Main Engines 1 No. of Screws 1 No. of Main Boilers 2 WT.B. W.P. 250 Lbs. No. of Aux./Donkey Boilers - W.P. - Surveyed Afloat or in Dry Dock Afloat Nature of Survey Part ES Was Damage Report issued? No Int. Cert.? Yes Last Report (For Head Office only)

Records of Survey & Special Notations as per Register Book. Table with columns Hull and Machinery. Hull: SS. Bal. 1-53, Docking 12-55 1.57 hrs. Machinery: *LMC. 3-52, Boilers 6-56, T.S.(CL) 2-54 N. 1.57

The condition of any of the following items is to be described as "good" only when the part has been examined, found or placed in good condition, and is considered to be acceptable until the due date of the next Periodical Examination. Where it is considered that re-examination or repairs should be effected before the due date of the next Periodical Examination a distinguishing mark thus † should be inserted against the item and the circumstances and action recommended described fully under "defects and repairs". At part or complete Special Surveys those items which are not applicable to the ship should be cancelled with a black line; this need not be done when the machinery is on a continuous survey basis. When any part has been subjected to pressure test this should be stated. Engine parts when referred to by numbers should be counted from forward.

DOCKING Propellers - Wear Down of Stern Bushes - Oil Glands - Sea Connections - Fastenings - Has Screwshaft/Tubeshaft been drawn? No Date of Examination - Has Shaft been changed? - Has Shaft now fitted been previously used? - Has Shaft now examined/fitted a continuous liner? - Approved oil gland? -

MAIN ENGINES (Recip. Steam or T.C.) PORT STARBOARD 1 Cyls., Covers, Pistons & Rods H.P., I.P., & L.P. (Good) 2 Valves & Gears H.P., I.P. & L.P. (Good). 3 Connecting Rods, Top Ends & Guides S&X Centre H.P., L.P. & L.P. (Good) 4 Crankpins & Bearings S&X Centre H.P., I.P. & L.P. Good. 5 Journals & Bearings All good except No. 1 as stated.

MAIN ENGINE DRIVEN AIR COMPRESSORS

6 Cyls. Covers, Pistons & Rods X 7 Connecting Rods & Top Ends X 8 Crankpins & Bearings X 9 Journals & Bearings X 10 Cyls. & Safety Devices X

MAIN ENGINE DRIVEN SCAVENGE PUMPS

11 Cyls. Covers, Pistons & Rods X 12 Connecting Rods & Top Ends X 13 Crankpins & Bearings X X 14 Journals & Bearings X 15 Levers X X X

SEAVENGK BLOWERS X

SUPERCHARGERS X X

MAIN TURBINES X X

18 Casings, Rotors, Blading, Bearings & Thrusts X

19 EXHAUST STEAM TURBINES (WITH RECIP. ENGINES) X -

20 STEAM COMPRESSORS X X

21 CLUTCHES & HYDRAULIC COUPLINGS -

22 REDUCTION GEARING X X

23 THRUST BLOCKS, SHAFTS & BEARINGS Good

24 INTERMEDIATE SHAFTS & BEARINGS Good

25 HOLDING DOWN BOLTS & CHOCKS X

26 CONDENSERS (MAIN & AUX.) X X

27 STEAM RE-HEATERS X

28 DE-SUPERHEATERS X X X X

29 STOP & MANOEUVRING VALVES X X

30 MAIN ENGINE DRIVEN PUMPS After bilge pump Good

31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES

Have Main Engines been tested working and manœuvring? No.

OPINION OF MACHINERY AND RECOMMENDATIONS

The Machinery of this vessel, where now seen, is in good condition and eligible in my opinion, that the record of E.S. 3-57 be made in the Register Book when the survey has been completed; subject to top half of No. 1 main bearing being remetaled before completion of survey.

Date of Committee NEW YORK APR 14 1957

Decision

Approved subject to 2 parts held Referred for comp. ES

NY 5085 23/6/57

Lloyd's Register Foundation logo and signature of W.D. Wardle, Engineer Surveyor to Lloyd's Register of Shipping.

012966-012982-0283 1/2 0283 1/2

If certificate is required state where to be sent.

S/S "SANTA MARINA"

32 Essential Independent Pumps (Identify by position) Port and starboard Fuel Oil Service pumps, oil transfer pump, general service pump, sanitary pump, ballast pump - all found or placed in good order.

33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls

34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary? No.

35 Fresh Water Coolers 36 Lub Oil Coolers 37 Heaters (state service)

38 Independent Air Compressors, Coolers & Safety Devices

39 Air Receivers & Safety Devices - Main 40 Auxiliary

41 Oil Fuel Tanks (Not forming part of hull structure)

42 Evaporators shell & coils only. 43 Have Evaporator Safety Valves been tested under steam? No.

44 Steering Machinery 45 Winches 46 Fire Extinguishing Arrangements

AUXILIARY ENGINES (Identify by position) Reversing engine good. Main Circulating pump - engine only good. Forced draft fan good. Turning engine good.

ELECTRICAL EQUIPMENT			
PROPULSION	PORT	STARBOARD	AUXILIARY EQUIPMENT
a Generators			1 Generators & Governors 3 generator engines only
b Exciters			m Motors
c Air Coolers			n Switchboards & Fittings
d Motors			o Circuit Breakers
e Air Coolers			p Cables
f Control Gear, Cables, etc.			q Insulation Resistance
g Insulation Resistance			r Steering Gear Generators and Motors
h Insulating Oil Test			s Navigation Light Indicators
i Overspeed Governors			
j Magnetic Couplings			
k Air Gap			

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler)

MAIN AUXILIARY, DONKEY or PRESS

Superheaters

Safety Valves

Mountings, Doors & Fastenings

Safety Valves Adjusted to { Sat. Spt.

Boiler Securing Arrangements

Main Economisers Exhaust Gas Heated Economisers

Steam Heated Steam Generators Steam Generator Safety Valves Adjusted to

Were Oil Burning System & Remote Controls examined working in accordance with Rules? Forced Circulating Pumps

Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules? Funnel

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main Auxiliary (over 3 in. bore)

Were Copper Pipes annealed? Have Saturated Pipes in cylindrical boiler smoke boxes been tested?

PARTICULARS OF DEFECTS & REPAIRS, ETC. (Damage repairs should be detailed separate from wear and tear repairs; state what action has been taken regarding items which are subjects of class)

Survey requested by Owner's Representative for commencement of Special Survey.

NOW DONE:- (Wear & Tear) - Main Engine

I.P. & L.P. piston rings renewed.

I.P. valve guide bars renewed and loose bushing renewed.

All main bearings opened up, wear down checked, found in order and bearings adjusted. No. 1 main bearing top half metal slightly loose. Recommended to remetal same. All crank pin bearings adjusted.

Sanitary Pump: New water end fitted.

Ballast pump and General Service pump - all suction and delivery valves reconditioned and new bucket rings fitted.

To Complete Survey:-

Main Engine:-

Main air pump to examine.

Forward attached bilge pump to examine.

Main condenser to examine and test. P.T.O.

Survey fees	\$210.00
Special fees	31.50
Damage fee	
Expenses	\$ 8.00

Date when A/c rendered April 9th, 1957.

Holding down bolts to examine.

No. 1 main bearing top half to remetal.

Main engine throttle valve to examine.

Hotwell tank to examine.

Auxiliary machinery

Auxiliary condenser to examine and test.

Auxiliary air and circulating pump to examine.

Main circulating pump water end to examine.

Feed heater to examine and test.

Two (2) Boiler Feed pumps to examine.

Evaporator safety valve to adjust.

Sea injection and overboard discharge valves to examine.

Steering engine and anchor windlass to examine.

Insulation of all three generators to test.

Electric wiring to megger test throughout vessel.

Switchboard and connections to examine.

Pumping arrangements to examine and test.

W.D. Warde

10 MAY 1957

noted as per recommendations

W.D. Warde

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