

Rpt. 9

14 NOV 1958

Date of writing report 29th July, 1958

Received London

Port of GENOA

No. 33724

Survey held at GENOA

No. of visits 15

First date 19/9/57

Last date 24/7/58

# REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 18468 Name S.S. "LIVERPOOL" Gross tons 14050 Date of build 1921

Owners Steamship Interprises of Panama Inc. Managers - Port of Registry Panama

Engines made 1921 By Newport Ns S.B. & D.D. Co. -Newport News. Type T

No. of Main Engines 1 No. of Screws 2

No. of Main Boilers 3 SB W.P. 200 lbs.

No. of Aux./Donkey Boilers - W.P. -

Surveyed Afloat or in Dry Dock afloat

Nature of Survey Comm. E.S. & B.S.

Was Damage Report issued? - Int. Cert.? yes

Last Report (For Head Office only) 145991

Hull	Machinery
100A1 Carrying petroleum in bulk.	LMC 12/53
SS 12/53	BS 8/56
Dkg 8/56	TS p 8/56
	CLs 11/53
	SP 12/53

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? ..... 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 I.C.) PORT STARBOARD

1 Cyls., Covers, Pistons & Rods ..... H.P. L.P. & I.P. = Good. ..... H.P. I.P. & L.P. = Good. ....

2 Valves & Gears ..... Do ..... Good. .... Do ..... Good. ....

3 Connecting Rods, Top Ends & Guides ..... All = Good. .... All = Good. ....

4 Crankpins & Bearings ..... All = Good. .... All = Good. ....

5 Journals & Bearings ..... All = Good. .... All = Good. ....

### MAIN ENGINE DRIVEN AIR COMPRESSORS

6 Cyls., Covers, Pistons & Rods .....

7 Connecting Rods & Top Ends .....

8 Crankpins & Bearings .....

9 Journals & Bearings .....

10 Coolers & Safety Devices .....

### MAIN ENGINE DRIVEN SCAVENGE PUMPS

11 Cyls., Covers, Pistons & Rods .....

12 Connecting Rods & Top Ends .....

13 Crankpins & Bearings .....

14 Journals & Bearings .....

15 Levers .....

16 SCAVENGE BLOWERS .....

17 SUPERCHARGERS .....

18 ~~MANIFOLD VALVES~~ .....

19 ~~MANIFOLD VALVES~~ .....

20 ~~MANIFOLD VALVES~~ .....

21 ~~MANIFOLD VALVES~~ .....

22 ~~MANIFOLD VALVES~~ .....

23 THRUST BLOCKS, SHAFTS & BEARINGS ..... Good. .... Good. ....

24 INTERMEDIATE SHAFTS & BEARINGS ..... Good. .... Good. ....

25 HOLDING DOWN BOLTS & CHOCKS ..... Good. .... Good. ....

26 CONDENSERS (MAIN & AUX.) ..... Tested = Good. .... Good. ....

27 ~~MANIFOLD VALVES~~ .....

28 ~~MANIFOLD VALVES~~ .....

29 STOP & MANOEUVRING VALVES ..... Good. .... Good. ....

30 MAIN ENGINE DRIVEN PUMPS ..... Air Good. .... Air Good. ....

31 ~~MANIFOLD VALVES~~ .....

OPINION OF MACHINERY AND RECOMMENDATIONS The machinery of this ship, as now seen, is in good and safe working condition and eligible, in my opinion, to remain as Classed with fresh records of E.S. & M.B.S. with dates, when the surveys have been completed.

Date of Committee Decision Defered for comp ES & MBS & for 5th TS

THURSDAY 20 NOV 1958

W. Filmer Lee (W. Filmer Lee), Engineer Surveyor to Lloyd's Register of Shipping Foundation

LATER ON (vessel laid up) H. a Survey also been held on Ship? If so, is the Report sent now, or when will it be sent?

If certificate is required state where to be sent.

Valid for Header

005720-003720-0043

Aft. feed pump.- Centre feed pump.- Forward feed pump.- Condenser extraction pump.- G.S. pump.-  
 32 Essential Independent Pumps (Identify by position) P. & S. S.W. circulating pump.- O.F. transfer pump forward Hold.- O.F. pressure pumps = Good.  
 33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls Good.- But see note below for completion.  
 34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary? yes  
 35 ~~Brush Water Coolers~~ 36 ~~Dist. Oil Coolers~~ 37 Heaters (state service) Feed & O.F. tested = Good.  
 38 ~~High Pressure Air Compressor, Donkey & Safety Valves~~  
 39 ~~Air Receiver & Safety Valves - Main~~ 40 ~~Auxiliary~~  
 41 ~~Oil Tank Tests for permeability of tank structure~~  
 42 Evaporators Good. 43 Have Evaporator Safety Valves been tested under steam?  
 44 Steering Machinery Good. 45 Windlass Good. 46 Fire Extinguishing Arrangements

AUXILIARY ENGINES (Identify by position) P. & S. S.W. circ. pump engines, 3 Generator engines.  
 The two F.D. fan engines = Good.

PROPULSION		ELECTRICAL EQUIPMENT	
PORT	STARBOARD		AUXILIARY EQUIPMENT
a Generators			l Generators & Governors Good.
b Exciters			
c Air Coolers			
d Motors			m <del>Dist. Oil</del>
e Air Coolers			
f Control Gear, Cables, etc.			n Switchboards & Fittings Good.
g Insulation Resistance			o Circuit Breakers Good.
h Insulating Oil Test			p Cables Good.
i Overspeed Governors			q Insulation Resistance Good.
j Magnetic Couplings			r <del>Steering Gear, Steam Locomotives &amp; Motors</del>
k Air Gap			s Navigation Light Indicators Good.

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

MAIN Starboard 21/10/57 - Centre 22/10/57 AUXILIARY, DONKEY or PRESS  
 Port 30/10/57 = Good.

~~EXAMINATION~~

Safety Valves Good.  
 Mountings, Doors & Fastenings Good.  
 Safety Valves Adjusted to Sat. not adjusted  
 Spk.  
 Boiler Securing Arrangements Good.

~~EXAMINATION~~

~~Steam Header & Safety Valves~~ Steam Governor Safety Valves Adjusted for  
 Were Oil Burning System & Remote Controls examined working in accordance with Rules? ~~Y~~  
~~Were Saturated Steam Pipes in cylindrical boiler smoke boxes been tested as required by Rules?~~ Funnel

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main NOT DUE. Auxiliary (over 3 in. bore)

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)

NOW DONE :- Engine Special and Boiler surveys now commenced.  
 The following items remain to complete the E.S:- Docking and sea connections.- Pumping arrangements under working conditions.- Fire extinguishing arrangements.- Evaporator S.Vs to adjust.-

To complete the Boiler survey the boilers require to be examined under steam and the safety valves adjusted.-

NOTE:- This ship is at present laid up at this Port.- The Owners Superintendent states that it is proposed to complete these surveys together with the port screwshaft survey, prior to the ship being again placed in service.

WEAR AND TEAR REPAIRS :- Port main engine :- All main bearings re-metalled.- Bed of crankshaft in bearings examined and found satisfactory.- Port main engine and bottom ends re-metalled.- Valve rods lightly skimmed & guide bushes renewed.- Stbd main engine:- Two main bearings re-metalled.- Bed of crankshaft in bearings examined and found satisfactory.- Valve rods lightly skimmed & guide bushes renewed.- Port condenser :- A number of tubes found thinned at ends now renewed and condenser examined under test on completion and found satisfactory.-  
 All pumps now examined overhauled and renewals made as found necessary.

LEAVE THIS SPACE BLANK

Survey fees Comm. ES = £ 111-2-0  
 B.S. = £ 34-6-0  
 ELECTR EQUIP. = £ 21-9-0  
 Damage fee ...  
 TRAV. & OFFICE Expenses... ..

28-11-2020  
 Lloyd's Register Foundation  
 London 6/8  
 Date when A/c rendered 29/x/58