

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office)

Date of writing Report 28th July 1942 When handed in at Local Office 19 Port of Rio de Janeiro
 No. in Survey held at Rio de Janeiro Date, First Survey January 6th Last Survey July 25th 1942
 Reg. Book 15961 on the Machinery of the Wood, Iron or Steel W.S. M.Y. "ITAPAGE" (No. of Visits 16)
 Tonnage Gross 4998 Vessel built at Rome By whom Achant de Normandie When 1927
 Net 3112 Engines made at Perthuis By whom Ch. Atel de Perthuis When 1927
 Nominal Horse Power 7.4 Boilers, when made (Main) (Donkey) 1927
 No. of Main Boilers 2 Owners Cia Nacional de Nov Costeira Owners' Address (if not already recorded in Appendix to Register Book.)
 No. of Donkey Boilers 2 Managers (Donkey) 1927 Port Rio de Janeiro Voyage Algebra County
 Steam Pressure in Main Boilers ✓ If Surveyed Afloat or in Dry Dock yes. Ilha de Tiama Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).
 in Donkey Boilers 180 lbs. (State name of Dock.)

Last Report No. 3400 Port Rio de Janeiro L.M.C. (M) + repairs.
 Particulars of Examination and Repairs (if any) D.B.S. + Shafts

(Periodical Surveys, when held, must be reported in detail and seriatim in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be briefly summarised at the end of the report. State also the dates and initials of any letters respecting this case.)

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined.

Was a damage report made by anyone else? If so, by whom? ✓

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? ✓

Did the Surveyor personally go inside each Donkey Boiler separately and make a thorough examination at this time? yes

And what parts of the Boilers could not be thus thoroughly examined? ✓

Also what special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler? ✓

State latest date of internal examination of each boiler 10th July 1942 Present condition of funnel Good

Did the Surveyor examine the Safety Valves of the Main Boiler? ✓ To what pressure were they afterwards adjusted under steam? ✓

Did the Surveyor examine the Safety Valves of Donkey Boiler? yes To what pressure were they afterwards adjusted under steam? 180 lbs. a

Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? ✓ and of the Donkey Boilers? yes

Did the Surveyor examine the drain plugs of the Main Boilers? ✓ and of the Donkey Boilers? yes

Did the Surveyor examine all the mountings of the Main Boilers? ✓ and of the Donkey Boilers? yes

Has screw shaft now been drawn and examined? yes Is it fitted with continuous liner? no Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? yes

Has shaft now been changed? no If so, state reasons ✓ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? Post new bush.

Has the shaft now fitted been previously used? ✓ Has it a continuous liner? ✓ Is electric light and/or power fitted? yes both.

State date of examination of Screw Shaft Pr. 5. 10/7/42. State the distance between ligament wire or bearing metal of stern bush and top of after bearing of screw shaft 3 1/2

Engine parts, when referred to by numbers, should be counted from forward. If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? yes

Has the insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? yes

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done. Complete.

This work was laid off for machinery overhaul and renewals. Spare parts not being available from engine maker, same have been made at Cronis works. The modified survey of machinery carried out in conjunction with the repair. Post main motor. Completely stripped down to bedplate. Crank shaft lifted, examined and found in order. All main bearings re-meshed and crank shaft bedded to original janglers, thrust and intermediate shafting examined and adjusted. All (6) cooling jacket castings renewed due to wear at joint with head. No. 1, 4 & 6 liners renewed due to wear. Engine re-erected, new packing rings fitted to close jacket to head. Piston examined and new rings fitted as required. Piston and connecting rods examined, crossheads machined and bearings re-meshed. The piston cooling telescopic piping re-erected, and metal packing renewed for same. The thrust block re-erected and adjusted. Cam shaft bearings re-meshed and cams renewed as found necessary. Transmission gear removed to works, gears re-erected and bearings adjusted. New cast iron scraper rings fitted to all pistons. Reversing unit and forward re-erected, check valves of pressure valves.

General Observations, Opinion, and Recommendation:— (State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.; thus, for example, B.S. 9,11, B.&M.S. 9,11, *L.M.C. 9,11, or *L.M.C. 140 lb., F.D., &c.)

This vessel's machinery is now in good order, eligible to be continued as classed, with record of L.M.C. (M) 7-42, D.B.S. 7-42 and screw shaft 3cm. D.B. 7-42.

Survey Fee (per Section 29) 25.500\$000 Fees applied for 27th July 1942
 Special Damage or Repair Fee (if any) £ Received by me, 19
 Travelling expenses (if chargeable) 21.000\$000

Committee's Minute TUE 3 NOV 1942
 Assigned + Lamb (M) 7.42
S.P.S. 7.42



Insert Character of Ship and Machinery precisely as in the Register Book

Is a Certificate required? If so, to be sent to

T.S.M.V. "ITAPAGE"

repaired, Valve fulcrums and rocking levers retouched as found necessary, new pins fitted as required.

Main compressor overhauled, Judson pin brass ground out and new crosshead pin fitted, piston rings removed in No. 1 & 2 stages, air coolers examined and tested, the combined bilge and sanding pump overhauled.

Starboard main motor. Stripped down to bedplate, crank shaft lifted, examined, and found in order. All main bearings including compressor bearing removed, shaft bedded to original journals, thrust shaft bearings removed, intermediate shafting and bearings examined, and all adjusted. All cylinder liners cooling jackets removed on account of rust at joint with liners. No. 3 & 6 cylinder liners removed due to wear, remainder in good order. Pistons and rods examined, new rings fitted as required and new C.D. wiper ring fitted to each piston. Crosshead pins machined and bearings removed throughout and engine reassembled. Cam shaft journals machined and bearings removed. All new packing rings made and fitted to close joint of jackets to liners. Transmission gears removed, journals and bearings reconditioned, lubricating piping for pistons working reconditioned, and new metallic packings fitted to same. Main thrust block overhauled and adjusted.

Combined bilge and sanding pump overhauled, reversing unit reconditioned, check valves of pumps repaired, Valve fulcrums and rocking levers bushed and new pins fitted as found necessary.

Main compressor examined, new Judson pin fitted, Valves overhauled, and new No. 1 & 2 piston rings fitted. Air coolers examined and tested, M.P. cooler tubes removed.

Generators (Steam driven) both stripped down, and the sealings for both units re-riveted, all working parts examined and found in order. The dynamos, motors and electrical circuits tested and found in order. Main lubricating oil pumps, cooling water pumps, ballast, transfer, sanding, journal services, and boiler feed pumps examined, also the auxiliary air compressor, reconditioned as required and found in order. The doors and water box of auxiliary condenser removed, tested and found satisfactory. The air receivers examined internally, found in good order, also the valves and pressure piping. Lubricating oil and daily service tanks cleaned and examined and found in good order.

The doubler boilers examined throughout with all their mountings, doors and safety valves, found same in good order, and safety valves adjusted under steam. The oil burning installation examined under working conditions, found to be in good order.

The vessel placed in dry dock, fastenings of propellers, stern tubes and bushes, oil glands, and sea valves examined and found in order. Both screws shafts drawn in and examined, the Port stern bush removed and shafts replaced, oil glands overhauled and propellers sighted. All sea valves and cocks opened up, examined and found in order.

On completion of the overhaul the vessel was taken into the bay for trials, when the main, and auxiliary machinery also the electrical installation was examined under working conditions and found to be satisfactory.

AMG.



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Lloyd's Register
Foundation

Mod Seavey & D. H. held
Shafts examined
Main Bearings re installed
K. Cylinder liners removed
Minor repairs.

It is submitted that
this vessel is eligible for
RECORD, Hull (No) 742
DB 1742
Boat 5742

RM
26/10/42

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