

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

No. 3791

(Received at London Office)

20 APR 1945

Date of writing Report 20th Feb 19 45. When handed in at Local Office _____ 19 _____ Port of Rio de Janeiro
 No. in 75918 Survey held at Rio de Janeiro Date, First Survey 26th Dec Last Survey 5th Feb 1945
 Reß. Book _____ (No. of Visits 6)
on the Machinery of the Wood, Iron or Steel sc str "GUARAPUAVA"

Tonnage { Gross 590 Vessel built at Aberdeen By whom J. Duthie Torry S.B. Co. When 1920 2
 Net 293 Engines made at Middlesboro By whom Richardsons Westgarth When 1920
 Nominal Horse Power 88 Boilers, when made (Main) 1920 (Donkey) _____
 No. of Main Boilers 1 sb. Owners Empresa Internacional de Transportes Managers' Address _____
 No. of Donkey Boilers _____ Managers _____
 Steam Pressure in Main Boilers 180 lbs If Surveyed Afloat or in Dry Dock on slipway. Port Rio de Janeiro Voyage Brazil coasting
 in Donkey Boilers _____

Last Report No. _____ Port _____ Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

Particulars of Examination and Repairs (if any) L.M.C.
 (Periodical Surveys, when held, must be reported in detail and serialim 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.)

CHARACTER * for Special Survey Date of last Survey and of Periodical Surveys.	Years assigned now expired.	Machinery and Boiler Surveys (including date of N.B., if any)
<u>L.100 AI</u>	<u>5.43</u>	<u>L.M.C. 10.4</u>
<u>S.S. Nwc No 3.2.33</u>		<u>B.S. 7.44</u>
<u>S.S. Rio No 2.4I</u>		<u>C.L. 7.4I</u>
<u>Barge Battersea 7.11.45</u>		

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? YES

" " Donkey " " " _____

If this was not done, state for what reasons? _____

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 29th Jan 1945 Present condition of funnel(s) good

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

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

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

Did the Surveyor examine the drain plugs of the Main Boilers? _____, and of the Donkey Boilers? _____

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

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

Has shaft now been changed? no If so, state reasons _____

Has the shaft now fitted been previously used? _____ Has it a continuous liner? _____ Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? _____

State date of examination of Screw Shaft 4th Jan/45 State the distance between lignum vitae or bearing metal of stern bush and top of after bearing of screw shaft 1/8"

Engine parts, when referred to by numbers, should be counted from forward. Is electric light and/or power fitted? no

If so, did the Surveyor examine the generators, motors, switchgear, cables and fuses? _____

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

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

Vessel placed on slipway, fastenings of propeller, sterntube and bush, and sea connections examined, screw shaft drawn in and examined together with the stern bush, found in order and replaced. Sea valves and cocks opened out, examined, found satisfactory and closed up. Examined the boiler through out with all mountings, doors, and safety valves, found or placed in good order, and safety valves adjusted under steam. Examined the cylinders, pistons, valves and chests, crossheads, guides and shoes, crank shaft journals, pins and bushes, thrust shaft and shoes, condenser examined and tested, main engine pumps and pumping arrangements, ballast, general service and auxiliary pumps, steam pipes examined and tested, and all found or placed in good order. Repairs, bottom manhole doors of boiler built up and refitted, main engine pump rods skimmed and new neck and gland bushes fitted, auxiliary pumps reconditioned and main engine adjusted.

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 vessels machinery is now in good order, eligible to be continued as classed, with record of

L.M.C. 2.45

Survey Fee (per Section 29) Cr£ 2.000,00 Fees applied for _____
 Special Damage or Repair Fee (if any) £ _____ 14/2/ 1945
 (per Section 29.) _____
 Travelling expenses (if chargeable) £ 400,00 Received by me, _____
 _____ 15/2/ 19 45

Committee's Minute _____
 Assigned FRI. 8 JUN 1945
+ LMC 2.45

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 Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation

Insert Character of Ship and Machinery precisely as in the Register Book. Is a Certificate required? If so, to be sent to YES, to this office.

SS No 3 due 2.45 held
→ Screw Shaft examined

It is submitted that this
vessel is eligible for T.M.C.
RECORD, + L.M.C 2.45
S 1.45

Reith
4/5/45



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