

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

(Received at London Office)

15 JUL 1942

Date of writing Report *11<sup>th</sup> May 1942* When handed in at Local Office *19* Port of *Rio de Janeiro*  
 No. in Reg. Book *19413* Survey held at *Rio de Janeiro* Date, First Survey *April 8<sup>th</sup>* Last Survey *May 11<sup>th</sup>* 19*42*  
 on the Machinery of the *Wood, Iron or Steel* *hull of M.V. "ARARAUARA"* (No. of Visits *6*)  
 Year. Month.  
 Tonnage { Gross *4872* Vessel built at *Mangalore* By whom *East India Trading Co.* When *1927* 10  
 Net *2974* Engines made at *Gurim* By whom *Fine Steam Engine Works* When *1927*  
 Nominal Horse Power *1008* Boilers, when made (Main) (Donkey) *1927*  
 No. of Main Boilers *1* Owners *Rio de Janeiro Soc. Anon.* Owners' Address  
 No. of Donkey Boilers *1* (if not already recorded in Appendix to Register Book.)  
 Steam Pressure in Main Boilers *120 lbs.* Managers *Rio de Janeiro* Voyage *Atlantic Coast*  
 in Donkey Boilers *120 lbs.* If Surveyed Afloat or in Dry Dock *Yes. M.V. de Janeiro* Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

Last Report No. *3435* Port *Rio de Janeiro*Particulars of Examination and Repairs (if any) *L.M.C. (M) & D.B.S.*

(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?

" " Donkey " " " *Yes.*

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 *17<sup>th</sup> April 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?

To what pressure were they afterwards adjusted under steam? *120 lbs.*

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? *No.* Is it fitted with continuous liner?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 reasonsHas the shaft now fitted been previously used? *Yes.* Has it a continuous liner?Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? *Yes.*State date of examination of Screw Shaft *17<sup>th</sup> April 1942.* State the distance between *ligum vine* or bearing metal of stern bush and top of after bearing of screw shaft *P. 3/2 S. 1/8.*Is electric light and/or power fitted? *Yes. B.M.*

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

*Vessel placed in dry dock. fastenings of propeller, stern bushes and sea connections examined and found in order. Sea valves and cocks opened up and examined, found satisfactory, and the oil relieving plants overhauled. The donkey boiler examined internally and externally, also all mountings, doors and safety valves, found in good order, and safety valves adjusted under steam. Repaired survey of machinery. Both main motors No. 2 & 3 (from forward) liners, jackets, covers, valves & gear, pistons & rods examined, No. 2 liner renewed due to wear. All crossheads, crank pins and main bearings opened up and examined, the white metal renewed in No. 1 & 2 crank pin bushes and No. 1 & 2 crossheads. Main compressor opened out all working parts including crank shaft examined and found in order. Main fuel pump off and reconditioned. The main exhaust flange has now been completely renewed. Thrust shaft bearing, also intermediate shaft bearings examined and found in order.*

General Observations, Opinion, and Recommendation:— *This vessel's machinery, so far as now seen, is in good order, eligible to be continued as classed, with record of L.M.C. (M) 5-42, and D.B.S. 5-42.*  
 (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 LMC 140 lb., F.D., &c.)  
 CS 3,34,  
 is in good order, eligible to be continued as classed, with record of L.M.C. (M) 5-42, and D.B.S. 5-42.

Survey Fee (per Section 29) *£2,000.00* Fees applied for *8<sup>th</sup> May 1942*  
 Special Damage or Repair Fee (if any) £ : :  
 (per Section 29.)  
 Travelling expenses (if chargeable) *£450.00* Received by me, *19*

Committee's Minute

Assigned

*+ Lmb 5.42**DBS 5.42*

CERTIFICATE WRITTEN

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register of Shipping

W148-0082(112)



T.M.V. "ARARAQUARA"

Stripped main motor. No<sup>s</sup> 1 & 4 (from forward) liners, jackets, pistons & rods, covers, valves and pins, all crosshairs.

No<sup>s</sup> 1 & 4 crank pins and all main bearings opened up, examined, found replaced in order. No 4

crank pin bushes removed, also No<sup>s</sup> 1 & 2 crosshead bushes (white metal). Lubricating oil, piston cooling, and jacket water circulating pumps reconditioned, also on the Port engine.

Thrust shaft bearing and intermediate shaft bearings examined, found in order. The main

exhaust range completely renewed. The air receivers drained, opened up and examined

internally and externally with the valves and pressure piping, found same in good order.

Generator No. 1. Stripped down and examined. Both liners & pistons renewed, crank shaft bearings

drained and bushes renewed, covers, valves and rods in good order, compressor reconditioned.

Generator No. 2. Stripped down and examined. Cylinders both freshened, new keys fitted, both liners

pistons and rings renewed. Crankshaft and crank pin bushes renewed, compressor overhauled.

Generator No. 3. Stripped down and examined. Both liners, pistons & rings renewed, and

crank pin bushes renewed.

All motors were major tested and found satisfactory, and the electric circuits tested.

On completion of the overhaul the main and auxiliary machinery were examined

under working and manoeuvring conditions and found to be satisfactory

Amey Jones



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Lloyd's Register  
Foundation

K148-0088(212)



Курс репараций effected

It is submitted that  
this vessel is eligible for  
THE RECORD.

+Lune 542

BB 542

Miss

21. 7. 42

[illegible]