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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2022-0466; Project Identifier MCAI-2021-00572-T; Amendment 39-22025; AD 2022-09-05]

RIN 2120-AA64

Airworthiness Directives; Embraer S.A. (Type Certificate Previously Held by Yaborã Industria Aeronáutica S.A.) Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule; request for comments.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain Embraer S.A. Model ERJ 190-300, and -400 airplanes. This AD was prompted by a report of premature failures of the alternating current motor pump (ACMP) 3A at hydraulic system #3 due to excessive wear of the ACMP tail bearing. This AD requires repetitive replacement of the hydraulic system ACMP 3A having a certain part number with a serviceable part, as specified in an Agência Nacional de Aviação Civil (ANAC) AD, which is incorporated by reference. The FAA is issuing this AD to address the unsafe condition on these products.

DATES: This AD becomes effective May 27, 2022.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of May 27, 2022.

The FAA must receive comments on this AD by June 27, 2022.

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to <https://www.regulations.gov>. Follow the instructions for submitting comments.
- Fax: 202-493-2251.
- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.
- Hand Delivery: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For material incorporated by reference (IBR) in this AD, contact ANAC, Aeronautical Products Certification Branch (GGCP), Rua Dr. Orlando Feirabend Filho, 230–Centro Empresarial Aquarius–Torre B–Andares 14 a 18, Parque Residencial Aquarius, CEP 12.246-190–São José dos Campos–SP, Brazil; telephone 55 (12) 3203-6600; email pac@anac.gov.br; internet www.anac.gov.br/en/. You may find this IBR material on the ANAC website at <https://sistemas.anac.gov.br/certificacao/DA/DAE.asp>. You may view this material at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. It is also available in the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2022-0466.

Examining the AD Docket

You may examine the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2022-0466; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the mandatory continuing airworthiness information (MCAI), any comments received, and other information. The street address for Docket Operations is listed above.

FOR FURTHER INFORMATION CONTACT: Krista Greer, Aerospace Engineer, Large Aircraft Section, FAA, International Validation Branch, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3221; Krista.Greer@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA invites you to send any written data, views, or arguments about this final rule. Send your comments to an address listed under ADDRESSES. Include “Docket No. FAA-2022-0466; Project Identifier MCAI-2021-00572-T” at the beginning of your comments. The most helpful comments reference a specific portion of the final rule, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend this final rule because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to <https://www.regulations.gov>, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this final rule.

Confidential Business Information

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this AD contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this AD, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this AD. Submissions containing CBI should be sent to Krista Greer, Aerospace Engineer, Large Aircraft Section, FAA, International Validation Branch, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3221; Krista.Greer@faa.gov. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

Background

The ANAC, which is the aviation authority for Brazil, has issued ANAC AD 2021-05-01, effective May 14, 2021 (ANAC AD 2021-05-01) (also referred to as the MCAI), to correct an unsafe condition for certain Embraer S.A. Model ERJ 190-300, and -400 airplanes.

This AD was prompted by a report of premature failures of the ACMP 3A at hydraulic system #3 due to excessive wear of the ACMP tail bearing. Excessive wear, if allowed to progress, increases the probability of ACMP failures. The FAA is issuing this AD to address excessive wear of the ACMP tail bearing, which could lead to loss of hydraulic system #3 and affect the electrical power distribution system. This condition, in combination with an independent failure in one engine, could cause loss of control of the airplane. See the MCAI for additional background information.

Related Service Information Under 1 CFR Part 51

ANAC AD 2021-05-01 specifies procedures for repetitive replacement of the hydraulic system ACMP 3A having part number (P/N) 3033041-101 with a serviceable part. This material is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

FAA's Determination

This product has been approved by the aviation authority of another country and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with this State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI described above. The FAA is issuing this AD after determining that the unsafe condition described previously is likely to exist or develop on other products of the same type design.

Requirements of This AD

This AD requires accomplishing the actions specified in ANAC AD 2021-05-01 described previously, except for any differences identified as exceptions in the regulatory text of this AD.

Explanation of Required Compliance Information

In the FAA's ongoing efforts to improve the efficiency of the AD process, the FAA developed a process to use some civil aviation authority (CAA) ADs as the primary source of information for compliance with requirements for corresponding FAA ADs. The FAA has been coordinating this process with manufacturers and CAAs. As a result, ANAC AD 2021-05-01 is incorporated by reference in this AD. This AD requires compliance with ANAC AD 2021-05-01 in its entirety through that incorporation, except for any differences identified as exceptions in the regulatory text of this AD. Service information required by ANAC AD 2021-05-01 for compliance will be available at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2022-0466 after this AD is published.

Interim Action

The FAA considers this AD interim action. If final action is later identified, the FAA might consider further rulemaking then.

FAA's Justification and Determination of the Effective Date

There are currently no domestic operators of these products. Accordingly, notice and opportunity for prior public comment are unnecessary, pursuant to 5 U.S.C. 553(b)(3)(B). In addition, for the forgoing reason(s), the FAA finds that good cause exists pursuant to 5 U.S.C. 553(d) for making this amendment effective in less than 30 days.

Regulatory Flexibility Act (RFA)

The requirements of the RFA do not apply when an agency finds good cause pursuant to 5 U.S.C. 553 to adopt a rule without prior notice and comment. Because the FAA has determined that it has good cause to adopt this rule without notice and comment, RFA analysis is not required.

Costs of Compliance

Currently, there are no affected U.S.-registered airplanes. If an affected airplane is imported and placed on the U.S. Register in the future, the FAA provides the following cost estimates to comply with this AD:

Estimated Costs for Required Actions

| Labor cost | Parts cost | Cost per product |
|--------------------------------------|------------|------------------|
| 2 work-hours × \$85 per hour = \$170 | * \$0 | \$170 |

* The FAA has received no definitive data on which to base the parts cost estimate.

According to the manufacturer, some or all of the costs of this AD may be covered under warranty, thereby reducing the cost impact on affected individuals. The FAA does not control warranty coverage for affected individuals. As a result, the FAA has included all known costs in the cost estimate.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

This AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

- (1) Is not a "significant regulatory action" under Executive Order 12866, and
- (2) Will not affect intrastate aviation in Alaska.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:



FAA
Aviation Safety

AIRWORTHINESS DIRECTIVE

www.faa.gov/aircraft/safety/alerts/
www.gpoaccess.gov/fr/advanced.html

2022-09-05 Embraer S.A. (Type Certificate Previously Held by Yaborã Industria Aeronáutica S.A.): Amendment 39-22025; Docket No. FAA-2022-0466; Project Identifier MCAI-2021-00572-T.

(a) Effective Date

This airworthiness directive (AD) is effective May 27, 2022.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Embraer S.A. (Type Certificate Previously Held by Yaborã Industria Aeronáutica S.A.) Model ERJ 190-300, and -400 airplanes, certificated in any category, as identified in Agência Nacional de Aviação Civil (ANAC) AD 2021-05-01, effective May 14, 2021 (ANAC AD 2021-05-01).

(d) Subject

Air Transport Association (ATA) of America Code 29, Hydraulic power.

(e) Unsafe Condition

This AD was prompted by a report of premature failures of the alternating current motor pump (ACMP) 3A at hydraulic system #3 due to excessive wear of the ACMP tail bearing. The FAA is issuing this AD to address excessive wear of the ACMP tail bearing, which could lead to loss of hydraulic system #3 and affect the electrical power distribution system. This condition, in combination with an independent failure in one engine, could cause loss of control of the airplane.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Requirements

Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, ANAC AD 2021-05-01.

(h) Exceptions to ANAC AD 2021-05-01

(1) Where ANAC AD 2021-05-01 refers to its effective date, this AD requires using the effective date of this AD.

(2) The “Alternative methods of compliance (AMOCs)” section of ANAC AD 2021-05-01 does not apply to this AD.

(3) For the initial replacement required by paragraph (b) of ANAC AD 2021-05-01: If the accumulated flight hours on a hydraulic system ACMP 3A having part number 3033041-101 cannot be conclusively determined, this AD requires accomplishing that replacement within 300 flight hours after the effective date of this AD.

(4) Where paragraph (b) of ANAC AD 2021-05-01 specifies to repeat the replacement “before the hydraulic system ACMP 3A with [part number] PN 3033041-101 accumulates 2,700 flight hours,” for this AD use “before the hydraulic system ACMP 3A with PN 3033041-101 accumulates 2,700 flight hours since installation in the ACMP 3A position.”

(5) Where Note 3 of ANAC AD 2021-05-01 specifies “for the intent of this Airworthiness Directive, it is considered a serviceable ACMP 3A” for this AD use “for this AD a serviceable ACMP 3A is one listed in paragraphs (b)(i) through (iv) of ANAC AD 2021-05-01.”

(i) Additional AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Large Aircraft Section, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the Large Aircraft Section, International Validation Branch, send it to the attention of the person identified in paragraph (j) of this AD. Information may be emailed to: 9-AVS-AIR-730-AMOC@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, Large Aircraft Section, International Validation Branch, FAA; or ANAC; or ANAC's authorized Designee. If approved by the ANAC Designee, the approval must include the Designee's authorized signature.

(j) Related Information

For more information about this AD, contact Krista Greer, Aerospace Engineer, Large Aircraft Section, FAA, International Validation Branch, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3221; Krista.Greer@faa.gov.

(k) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(i) Agência Nacional de Aviação Civil (ANAC) AD 2021-05-01, effective May 14, 2021.

(ii) [Reserved]

(3) For ANAC AD 2021-05-01, contact National Civil Aviation Agency (ANAC), Aeronautical Products Certification Branch (GGCP), Rua Dr. Orlando Feirabend Filho, 230–Centro Empresarial Aquarius–Torre B–Andares 14 a 18, Parque Residencial Aquarius, CEP 12.246-190–São José dos Campos–SP, Brazil; telephone 55 (12) 3203-6600; email: pac@anac.gov.br; internet www.anac.gov.br/en/. You may find this IBR material on the ANAC website at <https://sistemas.anac.gov.br/certificacao/DA/DAE.asp>.

(4) You may view this material at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this material that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email fr.inspection@nara.gov, or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on April 14, 2022.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2022-10143 Filed 5-11-22; 8:45 am]