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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2018-0767; Product Identifier 2018-NM-068-AD; Amendment 39-19514; AD 2018-25-03]

RIN 2120-AA64

Airworthiness Directives; Fokker Services B.V. Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: We are adopting a new airworthiness directive (AD) for all Fokker Services B.V. Model F28 Mark 0070 and 0100 airplanes. This AD was prompted by reports that debris from the parking brake shut off valve (PBSOV) could create a partial blockage of the restrictor check valve in the hydraulic return line of the PBSOV. This AD requires replacing the restrictor check valve with an improved valve that has a filter screen. We are issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective January 14, 2019.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of January 14, 2019.

ADDRESSES: For service information identified in this final rule, contact Fokker Services B.V., Technical Services Dept., P.O. Box 1357, 2130 EL Hoofddorp, the Netherlands; telephone +31 (0)88-6280-350; fax +31 (0)88-6280-111; email technicalservices@fokker.com; internet <http://www.myfokkerfleet.com>. You may view this service information at the FAA, Transport Standards 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 on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0767.

Examining the AD Docket

You may examine the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0767; 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 final rule, the regulatory evaluation, any comments received, and other information. The address for Docket

Operations (phone: 800-647-5527) is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

FOR FURTHER INFORMATION CONTACT: Tom Rodriguez, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3226.

SUPPLEMENTARY INFORMATION:

Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to all Fokker Services B.V. Model F28 Mark 0070 and 0100 airplanes. The NPRM published in the Federal Register on September 7, 2018 (83 FR 45362). The NPRM was prompted by reports that debris from the PBSOV could create a partial blockage of the restrictor check valve in the hydraulic return line of the PBSOV. The NPRM proposed to require replacing the restrictor check valve with an improved valve that has a filter screen.

We are issuing this AD to address debris from the PBSOV that could create a partial blockage of the restrictor check valve in the hydraulic return line of the PBSOV, which, if not corrected, may prevent complete main landing gear extension, possibly resulting in damage to the airplane during landing, and consequent injury to occupants.

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Union, has issued EASA Airworthiness Directive 2018-0077 dated April 6, 2018 (referred to after this as the Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition for Fokker Services B.V. Model F28 Mark 0070 and 0100 airplanes. The MCAI states:

Service experience with Fokker 70 and Fokker 100 aeroplanes has shown that debris from the parking brake shut-off valve (PBSOV) can eventually block the restrictor check valve in the hydraulic return line of the PBSOV. Prompted by these findings, Fokker Services issued [Service Bulletin] SBF100-32-159 to introduce a new PBSOV and a one-time inspection for debris in the affected part of the hydraulic return system. EASA issued AD 2009-0220 [which corresponds to FAA AD 2010-22-05 (75 FR 66649, October 29, 2010) (“AD 2010-22-05”)] to require those actions. In addition, Fokker Services issued SBF100-32-163 to introduce the option to install a restrictor check valve with a filter screen in the return line of the PBSOV. A recent review of in-service experience and the SBF100-32-159 inspection results revealed new occurrences of debris that obstructed (but did not completely block) the restrictor check valve.

This condition, if not corrected, might prevent complete main landing gear extension, possibly resulting in damage to the aeroplane during landing, and consequent injury to occupants.

To address this potential unsafe condition, Fokker Services issued Revision 1 of SBF100-32-163, providing instructions to replace the restrictor check valve with the improved valve incorporating a filter screen.

For the reason described above, this [EASA] AD requires the replacement of the restrictor check valve in the return line of the PBSOV with the improved valve.

You may examine the MCAI in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0767.

Comments

We gave the public the opportunity to participate in developing this final rule. We received no comments on the NPRM or on the determination of the cost to the public.

Conclusion

We reviewed the relevant data and determined that air safety and the public interest require adopting this final rule as proposed, except for minor editorial changes. We have determined that these minor changes:

- Are consistent with the intent that was proposed in the NPRM for addressing the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the NPRM.

Related Service Information Under 1 CFR Part 51

Fokker Services B.V. has issued Service Bulletin SBF100-32-163, Revision 1, dated February 21, 2018. This service information describes procedures for removing the restrictor check valve in the hydraulic return line of the PBSOV and installing an improved restrictor check valve that has a filter screen. This service information 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.

Costs of Compliance

We estimate that this AD affects 4 airplanes of U.S. registry. We estimate the following costs to comply with this AD:

| Estimated Costs | | | |
|--------------------------------------|-------------------|-------------------------|-------------------------------|
| Labor cost | Parts cost | Cost per product | Cost on U.S. operators |
| 2 work-hours × \$85 per hour = \$170 | \$1,282 | \$1,452 | \$5,808 |

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.

We are 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.

This AD is issued in accordance with authority delegated by the Executive Director, Aircraft Certification Service, as authorized by FAA Order 8000.51C. In accordance with that order, issuance of ADs is normally a function of the Compliance and Airworthiness Division, but during this transition period, the Executive Director has delegated the authority to issue ADs applicable to

transport category airplanes and associated appliances to the Director of the System Oversight Division.

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,
- (2) Is not a “significant rule” under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
- (3) Will not affect intrastate aviation in Alaska, and
- (4) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

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

Adoption of 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 (AD):



**FAA
Aviation Safety**

AIRWORTHINESS DIRECTIVE

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

2018-25-03 Fokker Services B.V.: Amendment 39-19514; Docket No. FAA-2018-0767; Product Identifier 2018-NM-068-AD.

(a) Effective Date

This AD is effective January 14, 2019.

(b) Affected ADs

This AD affects AD 2010-22-05, Amendment 39-16484 (75 FR 66649, October 29, 2010) (“AD 2010-22-05”).

(c) Applicability

This AD applies to Fokker Services B.V. Model F28 Mark 0070 and 0100 airplanes, certificated in any category, all serial numbers.

(d) Subject

Air Transport Association (ATA) of America Code 32, Landing gear.

(e) Reason

This AD was prompted by service experience showing that debris from the parking brake shut off valve (PBSOV) could create a partial blockage of the restrictor check valve in the hydraulic return line of the PBSOV. We are issuing this AD to address this condition, which, if not corrected, may prevent complete main landing gear extension, possibly resulting in damage to the airplane during landing, and consequent injury to occupants.

(f) Compliance

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

(g) Definitions

For the purposes of this AD, the definitions in paragraphs (g)(1) through (g)(3) apply.

(1) An affected part is any hydraulic restrictor check valve having part number (P/N) D71293-003, P/N D71295-401, or P/N D71296-401.

(2) Group 1 airplanes are those that have an affected part installed.

(3) Group 2 airplanes are those that do not have an affected part installed.

(h) Required Actions

For Group 1 airplanes, within 24 months after the effective date of this AD, modify the airplane by replacing each affected part with a restrictor check valve that has a filter screen, P/N

CKLX0517200B or P/N CKLX0520100B, as applicable, in accordance with the accomplishment instructions of Fokker Service Bulletin SBF100-32-163, Revision 1, dated February 21, 2018.

(i) Parts Installation Prohibition

Do not install an affected part on any airplane, as required by paragraph (i)(1) or (i)(2) of this AD, as applicable.

(1) For Group 1 airplanes: After modification of the airplane as required by paragraph (h) of this AD.

(2) For Group 2 airplanes: From the effective date of this AD.

(j) Terminating Actions for AD 2010-22-05

Accomplishing the actions required by paragraph (h) of this AD terminates all requirements of AD 2010-22-05.

(k) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards 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 local Flight Standards District Office, as appropriate. If sending information directly to the International Section, send it to the attention of the person identified in paragraph (l)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA, FAA; or the European Aviation Safety Agency (EASA); or Fokker Services B.V.'s EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(l) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2018-0077, dated April 6, 2018, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0767.

(2) For more information about this AD, contact Tom Rodriguez, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3226.

(m) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) 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) Fokker Service Bulletin SBF100-32-163, Revision 1, dated February 21, 2018.

(ii) [Reserved]

(3) For service information identified in this AD, contact Fokker Services B.V., Technical Services Dept., P.O. Box 1357, 2130 EL Hoofddorp, the Netherlands; telephone +31 (0)88-6280-350; fax +31 (0)88-6280-111; email technicalservices@fokker.com; internet <http://www.myfokkerfleet.com>.

(4) You may view this service information at the FAA, Transport Standards 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 service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Des Moines, Washington, on November 23, 2018.

John P. Piccola,
Acting Director, System Oversight Division,
Aircraft Certification Service.