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## **DEPARTMENT OF TRANSPORTATION**

### **Federal Aviation Administration**

#### **14 CFR Part 39**

**[Docket No. FAA-2017-1236; Product Identifier 2017-SW-136-AD; Amendment 39-19613; AD 2019-07-02]**

**RIN 2120-AA64**

#### **Airworthiness Directives; Robinson Helicopter Company Helicopters**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

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**SUMMARY:** We are adopting a new airworthiness directive (AD) for certain Robinson Helicopter Company (Robinson Helicopter) Model R66 helicopters. This AD requires inspecting the oil tank outlet's fitting color. If the fitting is blue, this AD requires replacing the tank with an oil tank that lacks a blue fitting. This AD also requires determining the revision letter on the ink stamp, and installing an oil tank angle based on that determination. This AD was prompted by reports of broken oil tank internal baffles. The actions of this AD are intended to correct an unsafe condition on these products.

**DATES:** This AD is effective May 17, 2019.

The Director of the Federal Register approved the incorporation by reference of a certain document listed in this AD as of May 17, 2019.

**ADDRESSES:** For service information identified in this final rule, contact Robinson Helicopter Company, 2901 Airport Drive, Torrance, CA 90505; telephone (310) 539-0508; fax (310) 539-5198; or at <http://www.robinsonheli.com/servelib.htm>. You may review a copy of the referenced service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N-321, Fort Worth, TX 76177. It is also available on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2017-1236.

#### **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-2017-1236; 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, any incorporated-by-reference service information, the economic evaluation, any comments received, and

other information. The street address for the 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:** Danny Nguyen, Aerospace Engineer, Los Angeles ACO Branch, Compliance and Airworthiness Division, FAA, 3960 Paramount Blvd., Lakewood, California 90712; telephone (562) 627-5247; email danny.nguyen@faa.gov.

## **SUPPLEMENTARY INFORMATION:**

### **Discussion**

On September 21, 2018, at 83 FR 47848, the Federal Register published our notice of proposed rulemaking (NPRM), which proposed to amend 14 CFR part 39 by adding an AD that would apply to Robinson Helicopter Model R66 helicopters, serial numbers 0003 through 0789, 0791, 0794 and 0796. The NPRM proposed to require, within 100 hours time-in-service (TIS), inspecting the oil tank outlet fitting color and replacing the tank before further flight if the fitting is blue. The NPRM also proposed to require determining the revision letter of the G689-1 oil tank assembly identification ink stamp and then installing G805-1 angle if the identification ink stamp is followed by revision letter F, G, H, or I, or by revision letter J with no yellow dot near the ink stamp. For revision letter J, a yellow dot indicates that the angle has been pre-installed and that no further action would be necessary. If the identification ink stamp is followed by a revision letter K, the NPRM proposed no further action would be necessary.

The NPRM was prompted by report of broken oil tank internal baffles caused by vibration. The proposed requirements were intended to prevent a broken baffle inside an oil tank, which could result in loss of oil pressure and oil flow to the engine, leading to engine failure and subsequent forced landing of the helicopter.

### **Comments**

We gave the public the opportunity to participate in developing this AD, but we did not receive any comments on the NPRM.

### **FAA's Determination**

We have reviewed the relevant information and determined that an unsafe condition exists and is likely to exist or develop on other products of the same type design and that air safety and the public interest require adopting the AD requirements as proposed.

### **Related Service Information Under 1 CFR Part 51**

We reviewed Robinson Helicopter R66 Service Bulletin SB-21A, Revision A, dated June 6, 2017, which specifies installing an angle in the tank outlet to prevent a failed baffle from blocking the outlet.

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.

### **Differences Between This AD and the Service Information**

The service information specifies performing the corrective actions within the next 100 hours TIS or by July 31, 2017, whichever comes first. This AD requires the actions within 100 hours TIS.

## **Costs of Compliance**

We estimate that this AD affects 265 helicopters of U.S. Registry. We estimate that operators may incur the following costs in order to comply with this AD. Labor costs average \$85 a work-hour.

The cost for identifying the oil tank assembly identification ink stamp and outlet fitting color is minimal. Inserting a G805-1 angle requires about 1 work-hour and parts cost about \$17 for an estimated cost of \$102 per helicopter.

## **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.

## **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 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.

We prepared an economic evaluation of the estimated costs to comply with this AD and placed it in the AD docket.

## **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):



**2019-07-02 Robinson Helicopter Company:** Amendment 39-19613; Docket No. FAA-2017-1236; Product Identifier 2017-SW-136-AD.

**(a) Applicability**

This AD applies to Robinson Helicopter Company Model R66 helicopters, serial numbers 0003 through 0789, 0791, 0794 and 0796, certificated in any category.

**(b) Unsafe Condition**

This AD defines the unsafe condition as broken baffle inside an oil tank. This condition could result in loss of oil pressure and oil flow to the engine, leading to engine failure and subsequent forced landing of the helicopter.

**(c) Effective Date**

This AD becomes effective May 17, 2019.

**(d) Compliance**

You are responsible for performing each action required by this AD within the specified compliance time unless it has already been accomplished prior to that time.

**(e) Required Actions**

Within 100 hours time-in-service:

(1) Visually inspect the oil tank outlet fitting color to determine if it is blue. If the fitting is blue, before further flight, replace the tank with an oil tank that does not have a blue fitting.

(2) Locate the G689-1 oil tank assembly identification ink stamp on the top surface of the oil tank, and determine the revision letter.

(i) If the identification ink stamp is followed by a revision letter F, G, H, or I unless previously installed, install a G805-1 angle as follows:

(A) Drain the engine oil and disconnect the F723-1 line assembly from the tank fitting at the firewall, using as reference Figure 1 of Robinson Helicopter Company R66 Service Bulletin SB-21A, Revision A, dated June 6, 2017.

(B) Pinch the flanges of G805-1 angle at the minimum required to enable insertion, and insert the angle in the oil tank outlet fitting until the angle snaps in place.

(C) Connect the F723-1 line assembly to the tank fitting. Special torque nut to 675 in.-lb. Torque stripe the fitting.

(ii) If the identification ink stamp is followed by a revision letter J, determine if there is a yellow dot near the ink stamp. A yellow dot indicates that the angle has been pre-installed and that no further action is required by this AD. If there is not a yellow dot near the ink stamp, install a G805-1 angle by following the procedures in paragraphs (e)(2)(i)(A) through (e)(2)(i)(C) of this AD.

(iii) If the identification ink stamp is followed by a revision letter K, no further action is required by this AD.

**(f) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, Los Angeles ACO Branch, FAA, may approve AMOCs for this AD. Send your proposal to: Danny Nguyen, Aerospace Engineer, Los Angeles ACO Branch, Compliance and Airworthiness Division, FAA, 3960 Paramount Blvd., Lakewood, California 90712; telephone (562) 627-5247; email 9-ANM-LAACO-AMOC-REQUESTS@faa.gov.

(2) For operations conducted under a 14 CFR part 119 operating certificate or under 14 CFR part 91, subpart K, we suggest that you notify your principal inspector, or lacking a principal inspector, the manager of the local flight standards district office or certificate holding district office before operating any aircraft complying with this AD through an AMOC.

**(g) Subject**

Joint Aircraft Service Component (JASC) Code: 7910, Engine Oil Storage (Airframe Furnished).

**(h) 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 the AD specifies otherwise.

(i) Robinson Helicopter Company R66 Service Bulletin SB-21A, Revision A, dated June 6, 2017.

(ii) [Reserved]

(3) For Robinson Helicopter Company service information identified in this AD, contact Robinson Helicopter Company, 2901 Airport Drive, Torrance, CA 90505; telephone (310) 539-0508; fax (310) 539-5198; or at <http://www.robinsonheli.com/servelib.htm>.

(4) You may view this service information at FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N-321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222-5110.

(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 Fort Worth, Texas, on March 26, 2019.

Lance T. Gant,  
Director, Compliance & Airworthiness Division,  
Aircraft Certification Service.