



EASA Safety Information Bulletin

SIB No.: 2010-01

Issued: 27 January 2010

Subject: **Failure of compressor adapter couplings in Rolls-Royce Corporation (RRC) Model 250-C20, -C20B, -C20F, -C20J, -C20S, -C20W and –B17 series turboprop and turboshaft engines**

Ref. Publications: Federal Aviation Administration (FAA) Airworthiness Directive (AD) 2004-26-09
RRC Alert Commercial Engine Bulletins CEB-A-1392 and TP CEB-A-1334

Description: RRC Model 250-C20, -C20B, -C20F, -C20J, -C20S, -C20W and –B17 series turboprop and turboshaft engines incorporate a compressor adapter coupling that can fail resulting in engine shutdown. Following reports of nine such events, the FAA issued AD 2004-26-09 requiring incorporation of an improved compressor adapter coupling. The FAA AD is applicable to engines installed in aircraft registered in a European Union member state by EASA Executive Director (ED) Decision 02/2003.

There have been additional events since the publication of AD 2004-26-09. Two such events occurred in Sweden, in July and August 2009, of which the first involved the improved (replacement) compressor adapter coupling and resulted in an accident. Both events are under investigation by the Swedish Accident Investigation Board.

Recommendation: This SIB does not pre-judge the outcome of the Swedish investigation. Its intent is to raise awareness of a safety issue and highlight the measures that are already in place to address it. Consequently, operators are reminded of the following:

- AD 2004-26-09 mandates the replacement of every compressor adapter coupling having a core part number (P/N) 23039791 with one having a core P/N 23076559.
- The core P/N 23039791 can have a dash number added, indicative of a pilot diameter size, and/or a letter prefix or suffix, indicative of a drawing revision or non-RRC (PMA) part. The AD applies to all such parts.
- Replacement must be carried out in strict adherence to the instructions in the AD, and in CEB-A-1392 or TP CEB-A-1334. Failure to do so may result in premature wear and failure of the replacement part.

Applicability: RRC Model 250-C20, -C20B, -C20F, -C20J, -C20S, -C20W and –B17 series turboprop and turboshaft engines, all serial numbers. These engines are installed in, but not limited to, the following:

This is information only. Recommendations are not mandatory.

Helicopters

Agusta	A109, A109A, A109A II
Bell	206A, 206B, 206L
Enstrom	480, 480B
Eurocopter France	AS355E, AS355F, AS355F1, AS355F2
Eurocopter Deutschland	BO-105C, BO-105S
MD Helicopters	369D, 369E, 369H, 369HE, 369HM, 369HS
Schweizer	269D

Fixed Wing Aircraft

Britten-Norman	BN-2T
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