

AIRWORTHINESS DIRECTIVE

released by DIRECTION GENERALE DE L'AVIATION CIVILE

Inspection and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.

Translation of 'Consigne de Navigabilité' ref. : 98-080(B) R1
In case of any difficulty, reference should be made to the French original issue.

CFM INTERNATIONAL

Turbo fan engines CFM56-2 and -3

Stage 1-2 spool HPC and N° 3 bearing aft stationary air/oil seal

1. APPLICABILITY :

This Airworthiness Directive applies to CFM56-2 and CFM56-3, -3B and -3C turbo fan engines.

2. REASONS :

Several separations of N° 3 bearing aft stationary air/oil seal have been experienced in service, resulting in rubbing on the disk of high pressure compressor spool stage 1-2. To prevent the effects due to air/oil seal separation and rubbing, the following actions are made mandatory.

This revision is to correct some typos in § 3.5.

3. MANDATORY ACTIONS :

3.1 CFM56-2 : remove from service HPC stage 1-2 spool, Part Number 9992M60G07 having rubbing marks and with serial numbers listed in the Service Bulletin CFM56-2 N° 72-825 dated January 23, 1998 at the next exposure from the effective date of this Airworthiness Directive, but prior to accumulating 2 000 cycles since the last engine shop visit associated with the rub event, in accordance with Service Bulletin CFM56-2 72-825, and replace with a serviceable part.

3.2 CFM56-3, -3B, -3C : remove from service HPC stage 1-2 spool, P/N 1589M66G02 with serial number listed in SB CFM56-3/3B/3C 72-856 dated January 23, 1998, at the next exposure from the effective date of this Airworthiness Directive, but prior to accumulating 2 000 cycles since the last engine shop visit associated with the rub event, in accordance to the SB CFM56-3/3B/3C 72-856, and replace with a serviceable part.

3.3 CFM56-3, -3B, -3C : engines with serial numbers 856692, 856709, 856713, 856799, 856673, 856691, 856694, 856696, 856697, 856746, 856780, 857669, 857685, 857686, 857704 and 859115 : perform the following prior to March 31, 1998.

- Remove from service N° 3 bearing aft stationary air/oil seal P/N 1663M91G03 and replace with a serviceable part.

n/PV

.../...

June 17, 1998

CFM INTERNATIONAL
Turbo fan engines CFM56-2 and -3

98-080(B) R1

- Install a N° 3 bearing aft air/oil seal retention bushing in accordance with SB CFM56-3/3B/3C N° 72-855 dated June 23, 1997.

3.4 For the purpose of this Airworthiness Directive, a serviceable spool is defined as a HPC 1-2 spool without a rub or scratch indication.

3.5 For the purpose of this Airworthiness Directive, a serviceable seal is defined as a **new** N° 3 bearing aft stationary air/oil seal P/N 1663M91G03 **without** one of the following serial number :

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| CTD81631, | CTD81907, | CTD81908, | CTD81998, | CTD82004, | CTD82132, |
| CTD82208, | CTD82210, | CTD82212, | CTD82213, | CTD82271, | CTD82295, |
| CTD82297, | CTD82298, | CTD82300, | CTD82304, | CTD82457, | CTD82759, |
| CTD82766, | CTD82767, | CTD82788, | CTD82817, | CTD82822, | CTD82854, |
| CTD82855, | CTD82856, | CTD82857, | CTD82859, | CTD82962, | CTD83232, |
| CTD83474, | CTD83837, | CTD83839, | CTD84100, | CTD84138, | CTD84140, |
| CTD84141, | CTD84143, | CTD84144, | CTD84145, | CTD84148, | CTD84203, |
| CTD84206, | CTD84207, | CTD84258, | CTD84262, | CTD84360, | CTD84363, |
| CTD84604, | CTD84712, | CTD84741, | CTD85147, | CTD85148, | CTD85149, |
| CTD85161, | CTD85162, | CTD85166, | CTD85168, | CTD85169, | CTD85170, |
| CTD85172, | CTD85348, | CTD85349, | CTD85351, | CTD85352, | CTD85353, |
| CTD85354, | CTD85355, | | | | |

Ref. : SB CFM56-2 72-825
CFM56-3/3B/3C 72-855
CFM56-3/3B/3C 72-856

This Revision 1 replaces the A.D. 98-080(B) dated February 11, 1998.

EFFECTIVE DATES :

Original A.D. : FEBRUARY 21, 1998
Revision 1 : JUNE 27, 1998