

HIGH PRESSURE COMPRESSOR ROTOR

LIFE LIMITS

Applicability

Engine type(s): LEAP-1A
 Engine model(s): ALL

Reason for update(s)

[TECHNICAL] Added PNs 2468M20G07 and 2466M58P03 to the life limits tables.

Table of contents

1. REFERENCES	2
2. REQUIRED CONDITIONS	2
3. SUPPORT EQUIPMENT	2
4. CONSUMABLES, MATERIALS AND EXPENDABLES.	2
5. SPARES	2
6. PROCEDURE	2
A.General	2
B.Life limits of the HPC rotor parts	2
7. REQUIREMENTS AFTER JOB COMPLETION	10

List of tables

Table: References	2
Table 1: LEAP-1A Engine model and life limits	2
Table 2: LEAP-1A Engine model and life limits	5
Table 3: LEAP-1A Engine model and life limits	7

List of figures

Figure 1: HPC rotor - Life limits	9
--	---

1. REFERENCES

Table: References

Technical Publication

LEAP-1A-05-11-00-01A-040A-C

2. REQUIRED CONDITIONS

No Required conditions

3. SUPPORT EQUIPMENT

No support equipment

4. CONSUMABLES, MATERIALS AND EXPENDABLES

No supplies

5. SPARES

No Spares

Safety conditions

No safety conditions

6. PROCEDURE

A. General

This section contains **Federal Aviation Administration (FAA)** and **European Aviation Safety Agency (EASA)** approved life limits for the **High Pressure Compressor (HPC)** rotor parts. Part life is identified by flight cycles. **Refer to: LEAP-1A-05-11-00-01A-040A-C.** The operator must make sure that the cycles on the parts are not more than the life limits: **Figure 1.**

B. Life limits of the HPC rotor parts

Table 1 and **Table 2** for the life limits of the **HPC** rotor life-limited parts for the LEAP-1A engine for commercial application.

Table 1: LEAP-1A Engine model and life limits

Part Name	Part Number	1A23	1A24 1A24E1	1A261A26E1	1A29
Compressor Rotor Stage 1 Blisk	2564M10G01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2564M10G02	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
Compressor Rotor Stage 2 Blisk	2468M17P01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M17P02	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles

to be continued ...



The Power of Flight

Part Name	Part Number	1A23	1A24 1A24E1	1A261A26E1	1A29
Compressor Rotor Stages 3-4 Blisk	2468M18G01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M18G02	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M18G03	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
Compressor Rotor Stage 5 Blisk	2468M19P01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M19P02	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M19P03	17,000 Cycles	17,000 Cycles	17,000 Cycles	17,000 Cycles

to be continued ...

Part Name	Part Number	1A23	1A24 1A24E1	1A261A26E1	1A29
Compressor Rotor Stages 6-10 Spool	2468M20G02	10,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles
	2468M20G03	11,000 Cycles	11,000 Cycles	11,000 Cycles	11,000 Cycles
	2468M20G05 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	13,000 Cycles	13,000 Cycles	13,000 Cycles	13,000 Cycles
	2468M20G05 For part serial numbers listed in Table 1 of SB 72-0413, issue 2 or later	7,900 Cycles	7,900 Cycles	7,900 Cycles	7,900 Cycles
	2468M20G05 For part serial numbers listed in Table 2 of SB 72-0413, issue 2 or later	10,200 Cycles	10,200 Cycles	10,200 Cycles	10,200 Cycles
	2468M20G06 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	13,000 Cycles	13,000 Cycles	13,000 Cycles	13,000 Cycles
	2468M20G06 For part serial numbers listed in Table 3 of SB 72-0413, issue 2 or later	4,400 Cycles	4,400 Cycles	4,400 Cycles	4,400 Cycles
	2468M20G06 For part serial numbers listed in Table 4 of SB 72-0413, issue 2 or later	7,900 Cycles	7,900 Cycles	7,900 Cycles	7,900 Cycles
	2468M20G06 For part serial numbers listed in Table 5 of SB 72-0413, issue 2 or later	10,200 Cycles	10,200 Cycles	10,200 Cycles	10,200 Cycles
	2468M20G07	13,000 Cycles	13,000 Cycles	13,000 Cycles	13,000 Cycles

to be continued ...

Part Name	Part Number	1A23	1A24 1A24E1	1A261A26E1	1A29
Impeller Tube Support	2468M46P01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
Rotating Seal	2466M58P01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2466M58P03	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles

Table 2: LEAP-1A Engine model and life limits

Part Name	Part Number	1A30	1A32	1A331A33B2	1A35A
Compressor Rotor Stage 1 Blisk	2564M10G01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2564M10G02	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
Compressor Rotor Stage 2 Blisk	2468M17P01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M17P02	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
Compressor Rotor Stages 3-4 Blisk	2468M18G01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M18G02	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M18G03	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
Compressor Rotor Stage 5 Blisk	2468M19P01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M19P02	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2468M19P03	17,000 Cycles	17,000 Cycles	17,000 Cycles	17,000 Cycles

to be continued ...

Part Name	Part Number	1A30	1A32	1A331A33B2	1A35A
Compressor Rotor Stages 6-10 Spool	2468M20G02	10,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles
	2468M20G03	11,000 Cycles	11,000 Cycles	11,000 Cycles	11,000 Cycles
	2468M20G05 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	13,000 Cycles	13,000 Cycles	13,000 Cycles	13,000 Cycles
	2468M20G05 For part serial numbers listed in Table 1 of SB 72-0413, issue 2 or later	7,900 Cycles	7,900 Cycles	7,900 Cycles	7,900 Cycles
	2468M20G05 For part serial numbers listed in Table 2 of SB 72-0413, issue 2 or later	10,200 Cycles	10,200 Cycles	10,200 Cycles	10,200 Cycles
	2468M20G06 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	13,000 Cycles	13,000 Cycles	13,000 Cycles	13,000 Cycles
	2468M20G06 For part serial numbers listed in Table 3 of SB 72-0413, issue 2 or later	4,400 Cycles	4,400 Cycles	4,400 Cycles	4,400 Cycles
	2468M20G06 For part serial numbers listed in Table 4 of SB 72-0413, issue 2 or later	7,900 Cycles	7,900 Cycles	7,900 Cycles	7,900 Cycles
	2468M20G06 For part serial numbers listed in Table 5 of SB 72-0413, issue 2 or later	10,200 Cycles	10,200 Cycles	10,200 Cycles	10,200 Cycles
	2468M20G07	13,000 Cycles	13,000 Cycles	13,000 Cycles	13,000 Cycles

to be continued ...

Part Name	Part Number	1A30	1A32	1A331A33B2	1A35A
Impeller Tube Support	2468M46P01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
Rotating Seal	2466M58P01	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles
	2466M58P03	17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles

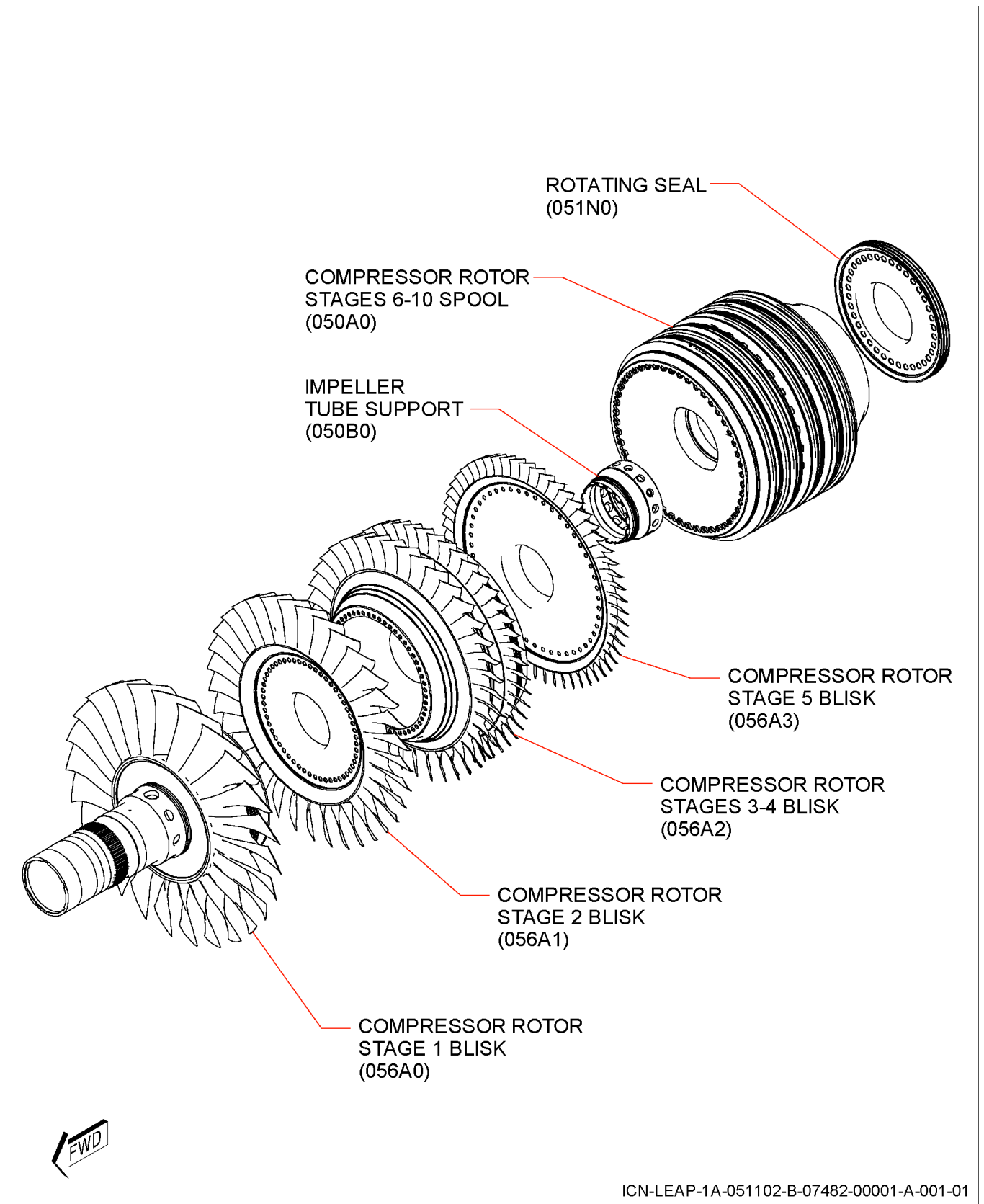
Table 3 for the life limits of the **HPC** rotor life-limited parts for the LEAP-1A engine for corporate jet application.

Table 3: LEAP-1A Engine model and life limits

Part Name	Part Number	1A26CJ	1A29CJ
Compressor Rotor Stage 1 Blisk	2564M10G01	10,000 Cycles	10,000 Cycles
	2564M10G02	10,000 Cycles	10,000 Cycles
Compressor Rotor Stage 2 Blisk	2468M17P01	10,000 Cycles	10,000 Cycles
	2468M17P02	10,000 Cycles	10,000 Cycles
Compressor Rotor Stages 3-4 Blisk	2468M18G01	10,000 Cycles	10,000 Cycles
	2468M18G02	10,000 Cycles	10,000 Cycles
	2468M18G03	10,000 Cycles	10,000 Cycles
Compressor Rotor Stage 5 Blisk	2468M19P01	10,000 Cycles	10,000 Cycles
	2468M19P02	10,000 Cycles	10,000 Cycles
	2468M19P03	10,000 Cycles	10,000 Cycles

to be continued ...

Part Name	Part Number	1A26CJ	1A29CJ
Compressor Rotor Stages 6-10 Spool	2468M20G02	10,000 Cycles	10,000 Cycles
	2468M20G03	10,000 Cycles	10,000 Cycles
	2468M20G05 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	10,000 Cycles	10,000 Cycles
	2468M20G05 For part serial numbers listed in Table 1 of SB 72-0413, issue 2 or later	6,900 Cycles	6,900 Cycles
	2468M20G05 For part serial numbers listed in Table 2 of SB 72-0413, issue 2 or later	8,900 Cycles	8,900 Cycles
	2468M20G06 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	10,000 Cycles	10,000 Cycles
	2468M20G06 For part serial numbers listed in Table 3 of SB 72-0413, issue 2 or later	4,000 Cycles	4,000 Cycles
	2468M20G06 For part serial numbers listed in Table 4 of SB 72-0413, issue 2 or later	6,900 Cycles	6,900 Cycles
	2468M20G06 For part serial numbers listed in Table 5 of SB 72-0413, issue 2 or later	8,900 Cycles	8,900 Cycles
		2468M20G07	10,000 Cycles
Impeller Tube Support	2468M46P01	10,000 Cycles	10,000 Cycles
Rotating Seal	2466M58P01	10,000 Cycles	10,000 Cycles
	2466M58P03	10,000 Cycles	10,000 Cycles



ICN-LEAP-1A-051102-B-07482-00001-A-001-01

HPC rotor - Life limits
Figure 1

7. REQUIREMENTS AFTER JOB COMPLETION

No Required conditions after job completion