

TECHNICAL SERVICES FORM
Life Limited Parts

ENGINE LIFE LIMITED PARTS CFM56-3C1 ESN 857486

| | | | | | | | | | | | | | |
|---------------|--------------|-----------|------------|--|-----------------------|-------|-------|------------------|--|--|-------------------|-------------------|------------------|
| Status as of: | Report Date: | 22-Jul-20 | LSV Date: | | | | | | | | | | |
| | Eng SN: | 857486 | SV Hours: | | Since Last Shop Visit | | | Lowest Limiter | | | | | |
| | Eng Type: | CFM56-3C1 | SV Cycles: | | CAT A | CAT B | CAT C | Description: | | | LPT Stg 1 Disk | LPT Stg 1 Disk | HPC 4 9 Spool |
| | Eng Hours: | 57,751 | TSLV: | | 0 | 0 | 0 | Cycles Remaining | | | 3699 | 3699 | 3087 |
| | Eng Cycles: | 34,436 | CSLV: | | 0 | 0 | 0 | | | | | | |


| INH | Description | PN | SN | CSN | TSN | Life Limit | | | Total Cycles Operated | | | Remaining Cycles | | |
|-----|--------------------|---------------|----------|--------|--------|------------|--------|--------|-----------------------|--------|-------|------------------|-------|-------|
| | | | | | | CAT A | CAT B | CAT C | CAT A | CAT B | CAT C | CAT A | CAT B | CAT C |
| 211 | Booster Spool | 135-009-306-0 | R012065 | 23,961 | 49,510 | 30,000 | 30,000 | 30,000 | 23,961 | 0 | 0 | 6039 | 6039 | 6039 |
| 213 | Fan Disk | 135-014-511-0 | J214061 | 23,961 | 49,510 | 30,000 | 24,900 | 20,100 | 23,961 | 0 | 0 | 6039 | 5012 | 4046 |
| 221 | Fan Shaft | 135-006-414-0 | J205176 | 23,961 | 49,510 | 30,000 | 30,000 | 30,000 | 23,961 | 0 | 0 | 6039 | 6039 | 6039 |
| 312 | HPC Front Shaft | 1275M07P02 | GWNSB791 | 16,092 | 25,934 | 20,000 | 20,000 | 20,000 | 8,188 | 7,904 | 0 | 3908 | 3908 | 3908 |
| 313 | HPC 1-2 Spool | 159RM66G02 | GWND9N50 | 16,092 | 25,934 | 20,000 | 20,000 | 20,000 | 8,188 | 7,904 | 0 | 3908 | 3908 | 3908 |
| 314 | HPC Stg 3 Disk | 159RM59P01 | GWNUJ950 | 16,092 | 25,934 | 20,000 | 20,000 | 20,000 | 8,188 | 7,904 | 0 | 3908 | 3908 | 3908 |
| 315 | HPC 4-9 Spool | 159RM29G01 | GWNYD329 | 16,092 | 25,934 | 20,000 | 20,000 | 15,800 | 8,188 | 7,904 | 0 | 3908 | 3908 | 3087 |
| 316 | GDP Seal | 1319M05P02 | GFF5E82T | 15,460 | 21,234 | 20,000 | 18,000 | 15,000 | 15,460 | 0 | 0 | 4540 | 4086 | 3405 |
| 521 | HPT Front Shaft | 1385MR0P04 | XAEJ3812 | 15,460 | 21,234 | 20,000 | 17,300 | 17,000 | 15,460 | 0 | 0 | 4540 | 3927 | 3859 |
| 522 | HPT Front Air Seal | 1282M72P05 | XAE34954 | 7,847 | 12,396 | 20,000 | 15,800 | 15,100 | 3,190 | 4,657 | 0 | 10915 | 8622 | 8240 |
| 525 | HPT Disk | 1475M29P02 | GWND59LA | 14,167 | 16,698 | 20,000 | 18,500 | 16,600 | 5,753 | 8,414 | 0 | 5150 | 4764 | 4275 |
| 526 | HPT Rear Shaft | 1864MR1P02 | TMT2B440 | 7,847 | 12,396 | 20,000 | 20,000 | 20,000 | 3,190 | 4,657 | 0 | 12153 | 12153 | 12153 |
| 542 | LPT Stg 1 Disk | 301-331-126-0 | DA480797 | 21,301 | 34,515 | 25,000 | 25,000 | 25,000 | 4,214 | 17,087 | 0 | 3699 | 3699 | 3699 |
| 543 | LPT Stg 2 Disk | 301-331-227-0 | BA588518 | 21,301 | 34,515 | 25,000 | 25,000 | 25,000 | 4,214 | 17,087 | 0 | 3699 | 3699 | 3699 |
| 544 | LPT Stg 3 Disk | 301-331-222-0 | BA603375 | 21,301 | 34,515 | 25,000 | 25,000 | 25,000 | 4,214 | 17,087 | 0 | 3699 | 3699 | 3699 |
| 545 | LPT Stg 4 Disk | 301-331-427-0 | BA607923 | 21,301 | 34,515 | 25,000 | 25,000 | 25,000 | 4,214 | 17,087 | 0 | 3699 | 3699 | 3699 |
| 546 | Conical Support | 305-056-116-0 | DA480504 | 21,301 | 34,515 | 25,000 | 25,000 | 25,000 | 4,214 | 17,087 | 0 | 3699 | 3699 | 3699 |
| 551 | LPT Shaft | 301-330-067-0 | LA040349 | 21,301 | 34,515 | 30,000 | 30,000 | 30,000 | 4,214 | 17,087 | 0 | 8699 | 8699 | 8699 |
| 552 | LPT Stub Shaft | 301-330-626-0 | BA543763 | 21,301 | 34,515 | 25,000 | 25,000 | 25,000 | 4,214 | 17,087 | 0 | 3699 | 3699 | 3699 |

Technical Records Signature:

MPA RUN REPORT

| ESN 857486 | | | |
|----------------|------------|---------------|---------|
| TYPE CFM56-3C1 | | | |
| LOCATION | BOH | TEMPERATURE | 20°C |
| DATE | 29/07/2020 | BARO SETTING | 30.0 |
| RATING RAN AT | 22K | TIMERS FITTED | YES |
| N1 TARGET | 90.7% | ACTUAL N1 | 90.8% |
| MAX EGT | 823°C | ACTUAL EGT | 820°C |
| MAX N2 | 98.0% | ACTUAL N2 | 97.4% |
| EGT MARGIN | 21°C* | N2 MARGIN | 0.645%* |

| MARGINS AT OTHER RATINGS | | | |
|--------------------------|---------|------------|--------|
| RATING | MAX EGT | ACTUAL EGT | MARGIN |
| 18.5K | 892°C | 820°C | 90°C* |
| 20K | 867°C | 820°C | 65°C* |
| 22K | 823°C | 820°C | 21°C* |
| 23.5K | 820°C | 820°C | 1°C* |

* ADJUSTED FOR ACTUAL N1 D. MERCUS  29/07/2020

VIBRATION SURVEY

ESN:

857486

| %N1 | %N2 | VIBRATION READING UNITS (ACCEL) | %N1 | %N2 | VIBRATION READING UNITS (DECEL) |
|-------------|-------------|---------------------------------|-------------|-------------|--|
| 53.2-56.0% | | | 87.0-84.1% | | |
| 53.8 | 84.8 | 0.5 | 85.3 | 94.5 | 0.8 |
| 63.8-67.6% | | | 82.1-79.2% | | |
| 65.3 | 88.1 | 0.6 | 80.5 | 93.0 | 1.0 |
| 71.5-75.4% | | | 75.4-71.5% | | |
| 73.5 | 90.6 | 0.7 | 73.7 | 91.1 | 1.2 |
| 79.2-82.1% | | | 67.6-63.8% | | |
| 80.8 | 92.9 | 0.9 | 64.9 | 88.2 | 0.7 |
| 84.1-87.0% | | | 56.0-52.2% | | |
| 85.2 | 94.5 | 0.7 | 54.6 | 85.5 | 0.5 |
| 90.0-93.7% | | | | | |
| 91.2 | 96.9 | 0.7 | | | DO NOT EXCEED STATIC TAKE OFF POWER FOR CURRENT CONDITIONS |