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**ESN 858474**  
**CFM56-3C1**



**ENGINE TOTAL TIME:** 39,115.24  
**ENGINE TOTAL:** 47,491

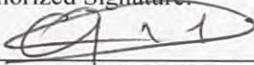


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**ESN 858474  
CFM56-3C1**



**FAA FORM 8130-3**

1. Approving Civil Aviation Authority/Country:  FAA/UNITED STATES	2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number:  <b>W/O: PA20074WA</b>
4. Organization Name and Address: <b>Precise Aviation, Inc.</b> <b>8446 NW 58 ST Miami, Florida 33166</b> <b>FAA CRS # P5AR253J</b>			5. Work Order/Contract/Invoice Number: <b>W/O: PA20074WA/ RO:12012</b>	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:
1	<b>ENGINE - CFMI</b>	<b>CFM56-3C1</b>	<b>1</b>	<b>858474</b>
11. Status/Work: <b>REPAIRED</b>				
12. Remarks: CFMI Engine CFM56-3C1, ESN 858474 received the following limited work scope: -Installed Repaired Oil Pressure Transmitter as per B737-300/400/500 AMM 79-32-01. Rev. 92, Dated 25/SEP/2020. -Installed Repaired Starter Control Valve as per B737-300/400/500 AMM 80-11-03. Rev. 92, Dated 25/SEP/2020. -Installed 1 each Serviceable Thermocouple harness and probe as per B737-300/400/500 AMM 77-21-01. Rev. 92, Dated 25/SEP/2020. -Installed Overhauled Main Engine Control as per B737-300/400/500 AMM 73-21-01. Rev. 92, Dated 25/SEP/2020. - Witnessed Test 10, Replacement Engine Test (Untested) at 22K LBS of Thrust at 85% N1 and Take Off Target only. Accomplished by Avocet Aviation Services as per B737-300/400/500 AMM 71-00-00. Rev. 92, Dated 25/SEP/2020. Parameters within limit, Reference Avocet Aviation Services FAA 8130-3 Tracking # 2218. -Accomplished Post Test Full Video Borescope Inspection of LPC, HPC, CC, HPT NGV (Including 360), HPT, LPT STG 1 NGV (Including 360) and LPT as per B737-300/400/500 AMM 72-00-00. Rev. 92, Dated 25/SEP/2020. No out of limit finding noted. -This release certifies only the work requested by the customer. All open AD's, SB's and carry forward items are the customer responsibility prior to engine installation. -Documents filed under Precise Aviation Inc. Work order PA20074WA				
Customer supplied Time and Cycles: Engine Total Time: 39,115.24   Engine Total Cycles: 47,491 "Certifies that the work specified in blocks 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number:"EASA.145.5310"				
13a. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.		14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12  Certificates that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		
13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature: 	14c. Approval/Certificate No.: <b>P5AR253J</b>	
13d. Name (Typed or Printed):	13e. Date: (dd/mmm/yyyy):	14d. Name (Typed or Printed): <b>Abraham Espinoza</b>	14e. Date (dd/mmm/yyyy): <b>27/OCT/2020</b>	
<b>User/Installer Responsibilities</b>				
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>				



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**ESN 858474  
CFM56-3C1**



**LIFE LIMITED  
PARTS STATUS**

# MIAMI NDT, INC

## Life Limited Parts Time/Cycle Record

CFM56-3



FAA CRS N9QR165B \* E.A.S.A. # 145.6167

ENGINE MODEL: CFM56-3C1  
 ENGINE SERIAL NO.: 858474  
 WORK ORDER NO.: W0120C3E000313  
 DATE: 31-Mar-2020  
 CURRENT POWER RATING: Cat A

TSN: 39,115.24  
 CSN: 47,491

LAST REPAIR AGENCY: Miami NDT, Inc  
 DATE LAST SHOP VISIT: March 31, 2020

REASON FOR REMOVAL: Lease Return

CUSTOMER: Powerhouse				CYCLES			CYCLE LIMITERS			REMAINING CYCLES			
NOMENCLATURE	PART NO.	SERIAL NO.	TOTAL HOURS	CAT A	CAT B	CAT C	CAT A LIMIT	CAT B LIMIT	CAT C LIMIT	TOTAL CYCLES	CAT A	CAT B	CAT C
<b>FAN ROTOR MODULE</b>													
BOOSTER SPOOL	335-009-306-0	DD686904	19,108.96	7,047	11,879	3,717	30,000	30,000	30,000	22,643	7,357	7,357	7,357
FAN STG. 1 DISK	335-014-511-0	BC610519	19,108.96	7,047	11,879	3,717	30,000	24,900	20,100	22,643	3,093	2,567	2,072
FAN SHAFT	335-006-414-0	DD935476	19,108.96	7,047	11,879	3,717	30,000	30,000	30,000	22,643	7,357	7,357	7,357
<b>HPC ROTOR MODULE</b>													
HPC FRONT SHAFT	1275M37P02	GWN0LNPF	14,592.24	366	11,883	3,717	20,000	20,000	20,000	15,966	4,034	4,034	4,034
HPC SPOOL 1-2	1589M66G02	GWN0LLL3	14,592.24	366	11,883	3,717	20,000	20,000	20,000	15,966	4,034	4,034	4,034
HPC STG. 3 DISK	1590M59P01	XAEI8810	14,592.24	366	11,883	3,717	20,000	20,000	20,000	15,966	4,034	4,034	4,034
HPC SPOOL 4 - 9	1588M89G03	GWN0LLJE	14,592.24	366	11,883	3,717	20,000	20,000	15,800	15,966	3,045	3,045	2,405
HPC SEAL - CDP	1319M25P02	GFFR84DD	21,644.51	5,825	9,750	0	20,000	18,000	15,000	15,575	3,342	3,008	2,506
<b>HPT ROTOR MODULE</b>													
HPT FWD SHAFT	1385M90P04	XAE64381	22,489.50	218	9,474	6,118	20,000	17,300	17,000	15,810	1,632	1,411	1,387
HPT FWD AIR SEAL	1282M72P05	GWN0AH5J	14,738.48	0	8,838	1,177	20,000	15,800	15,100	10,015	7,254	5,730	5,477
HPT DISK	1475M29P02	GWN05TL6	22,489.50	218	9,474	6,118	20,000	18,500	16,600	15,810	2,169	2,006	1,800
HPT REAR SHAFT	1864M91P02	TMTTH056	22,489.50	218	9,474	6,118	20,000	20,000	20,000	15,810	4,190	4,190	4,190
<b>LPT ROTOR MODULE (LPT STG 1 DISK FROM ESN 720102, LPT STG 2 DISK FROM ESN 725930 &amp; LPT STG 4 DISK FROM ESN 856747)</b>													
LPT STG. 1 DISK*	301-331-125-0	J214278	29,965.10	9,112	11,730	0	25,000	25,000	18,800	20,842	4,158	4,158	3,127
LPT STG. 2 DISK*	301-331-227-0	BC518438	45,564.00	13,361	1,772	4,814	25,000	25,000	25,000	19,947	5,053	5,053	5,053
LPT STG. 3 DISK	301-331-322-0	BC896376	19,108.96	7,047	11,879	3,717	25,000	25,000	25,000	22,643	2,357	2,357	2,357
LPT STG. 4 DISK*	301-331-429-0	BA821388	41,916.91	7,742	13,250	1,208	25,000	25,000	25,000	22,200	2,800	2,800	2,800
LPT CONICAL SUPPORT	305-056-116-0	DD334706	19,108.96	7,047	11,879	3,717	25,000	25,000	25,000	22,643	2,357	2,357	2,357
LPT SHAFT	301-330-067-0	LA132065	28,510.68	13,361	2,037	4,814	30,000	30,000	30,000	20,212	9,788	9,788	9,788
LPT STUB SHAFT	301-330-626-0	DC996752	28,510.68	13,361	2,037	4,814	25,000	25,000	25,000	20,212	4,788	4,788	4,788

The above data was obtained from engine records supplied by the previous owners, repair agencies and operators of the engine.

LIMITER	CAT A	CAT B	CAT C
	1,632	1,411	1,387

SIGNATURE:

Danilo Saintien

DATE: 31-Mar-2020

ORIGINAL



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**ESN 858474  
CFM56-3C1**



**TEST RESULTS**

1. Approving Civil Aviation  
Authority/Country

FAA / United States

2

3. Form Tracking Number:

2218

## AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

4. Organization Name and Address:



Avocet Aviation Services, LLC  
2551 Hellcat Lane  
Sanford, FL 32771

FAA CRS # 6VAR708B  
Tel. (+)1.407-585-6201  
Fax. (+)1.407-585-6217

5. Work Order/Contract/Invoice  
Number:

2218-12011/1

6. Item:

7. Description:

8. Part Number:

9. Quantity:

10. Serial Number:

11. Status/Work

1

ENGINE, CFMI

CFM56-3C-1

1

858474

TESTED

12. Remarks: \*\*THIS FAA FORM 8130-3 CORRECTS THE ERROR IN BLOCK 12 OF THE FAA FORM 8130-3 2218-12011 DATED OCT. 22 2020 AND DOES NOT COVER COMFORMITY/CONDITION  
RELEASE TO SERVICE\*\*

CFMI ENGINE P/N CFM56-3-C1 SERIAL NUMBER 858474 RECEIVED A LIMITED SCOPE OF WORK AS FOLLOWS:  
ACCOMPLISHED MPA TEST 10 CFM563-C1, THIS ENGINE WAS TESTED AT 22K REFERENCE ATTACHED RUN DATA SHEET. AND IAW BOEING 737 AMM 71-00-00. NO OUT OF LIMITS CONDITIONS N  
THE ENGINE FUEL AND OIL SYSTEMS WERE PRESERVED FOR 30-365 DAYS PER B737 AMM 71-00-03. ALL WORK SPECIFIED HAS BEEN ACCOMPLISHED IAW BOEING 737 AIRCRAFT MAINTENANC  
MANUAL (AMM) REV.92 DATED 25 SEPT 2020.

### CUSTOMER SUPPLIED TIMES AND CYCLES

TT: 39,115.24

TC: 47,491

ALL WORK CARRIED OUT UNDER THIS WORK ORDER IS ON FILE AT THE REPAIR STATION AND HELD UNDER WORK ORDER 2218, ALL ORIGINAL DOCUMENTS, CERTIFICATIONS AND TAGS WER  
PROVIDED TO CUSTOMER.

AVOCET CERTIFIES THAT WORK ACCOMPLISHED IN BLOCK 11 AND 12 WAS CARRIED OUT I/A/W EASA 145 AND IN RESPECT TO THAT WORK, THE ENGINE IS CONSIDERED READY  
FOR RELEASE TO SERVICE UNDER EASA NO: 145.6440.

13a. Certifies the items identified above were manufactured in conformity to:

- Approved design data and are in a condition for safe operation
- Non-approved design data specified in Block 12

14a.  14CFR 43.9 Return to Service  Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block  
12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to  
that work, the items are approved for return to service.

13b. Authorized Signature:

13c. Approval/Authorization No.:

14b. Authorized Signature:

14c. Approval/Certificate No.:

6VAR708B

13d. Name (Typed or Printed):

13e. Date (dd/mmm/yyyy):

14d. Name (Typed or Printed):

13e. Date (dd/mmm/yyyy):

29 OCT.2020

ROBERT TERAN

### User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

NSN: 0052-00-012-9005

## MPA RUN DATA B737 TEST NO. 10

USTOMER: POWER HOUSE CAPITAL  
NGINE SERIAL NO: 858474  
NGINE SERIAL NO:  
ORK ORDER NO: 2218  
ATE: 15, OCT. 2020  
OWER SETTING: 22k

ACFT REG. NO:  
POSITION NO: 1  
POSITION NO: 2

REASON: Test 10

Engine Pos.	Engine Model	Engine S/N	MEC P/N	PMC P/N	Tank	Fuel Quantity (kgs)
1	CFM56-3-C1	858474	665038063-210	07482SOCN7157M68P04	No. 1	1,260
2					No. 2	1,290
					CTR	3110
		FUEL TYPE: JET-A		Total	5,660	

## Engine Start Data

ENGINE POS.	Start Lever Adv.		INITIAL FUEL FLOW	LIGHT-UP TIME SEC.	STARTER CUTOUT N2%	MAX EGT	MAX FUEL FLOW	TIME TO IDLE SECONDS	ENGINE OIL			AVM UNITS
	N2%	Motoring Time Sec							QTY	TEMP	PRESSURE	
1	25%	45	300	2	46.0%	658	500	63	80%	45	33	0.8
2												

Low Idle limit: +3.0 / -1.0 N2%

High Idle limit: +3.0 / -7 N2%

ENGINE POS.	OAT (°C)	BARO	Low Idle (N2 %)			High Idle (N2 %)			Target	Recorded
			Target	Recorded	Target	Recorded	Target	Recorded		
1	31	30	62.4	61.7	73	73.3				
2										

## Test No. 5 Power Assurance Check (80% N1)

ENGINE POS.	OAT (°C)	TARGET	Recorded Values						VIB
			N1%	N2%	EGT	FUEL FLOW	OT	OP	
1									
2									

## Test No. 5 Power Assurance Check (85% N1)

ENGINE POS.	OAT (°C)	TARGET	Recorded Values						VIB
			N1%	N2%	EGT	FUEL FLOW	OT	OP	
1	29	86.9	86.9	96.5	810	3.1	91	55	2.5
2									

## Test No. 5 Power Assurance Check (90% N1)

ENGINE POS.	OAT (°C)	TARGET	Recorded Values						VIB
			N1%	N2%	EGT	FUEL FLOW	OT	OP	
1									
2									

## Test 5 Power Assurance Check (80% N1)

ENGINE POS.	OAT (°C)	TARGET	Recorded Values			MAX EGT	BASE EGT MARGIN	TCC TIMER MARGIN ADJ	EGT MARGIN SEA LEVEL	EGT MARGIN @ MARANA,AZ	EGT MARGIN @ 4,000 FT.
			N1%	N2%	EGT						
1											
2											

## Test 5 Power Assurance Check (85% N1)

ENGINE POS.	OAT (°C)	TARGET	Recorded Values			MAX EGT	BASE EGT MARGIN	TCC TIMER MARGIN ADJ	EGT MARGIN SEA LEVEL	EGT MARGIN @ MARANA,AZ	EGT MARGIN @ 4,000 FT.
			N1%	N2%	EGT						
1	29	86.9	86.9	96.5	810	810	793	-17	17	0	
2											

## Test 5 Power Assurance Check (90% N1)

ENGINE POS.	OAT (°C)	TARGET	Recorded Values			MAX EGT	BASE EGT MARGIN	TCC TIMER MARGIN ADJ	EGT MARGIN SEA LEVEL	EGT MARGIN @ MARANA,AZ	EGT MARGIN @ 4,000 FT.
			N1%	N2%	EGT						
1											
2											

\*\* NOTE: 22,000 THRUST LBS CHECK @ SEA LEVEL EGT MARGIN REDUCED 43 DEG C FOR 80% SETTING, FOR 85% - 90% SETTINGS REDUCE 42 DEG C  
\*\* NOTE: NO ALTITUDE ADJUSTMENT FOR 22,000 OPERATIONS AND HIGHER.

REV. 5 06-01-2018 FORM M022

## ENGINE PERFORMANCE RUN.

B737 AMM 71-00-00

## TEST 6

PMC OFF	PMC ON
Target N2	Recorded
1	93.5

2
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## TEST 7 - Vibration Survey

## Accelerate

N1%	N1%	Vib Readings (UNITS)
Range	Speed	POS 1
52.2-56.0	53.0	0.5
63.8-67.6	65.0	0.8
71.5-75.4	73.0	1.4
79.2-82.1	80.0	2.1
84.1-87.0	85.0	2.5
90.0-93.7	91.0	2.3

## TEST 7 - Vibration Survey

## Decelerate

N1%	N1%	Vib Readings (UNITS)
Range	Speed	POS 1
90.0-93.7	91.0	2.5
84.1-87.0	85.0	2.7
79.2-82.1	80.0	2.9
71.5-75.4	73.0	1.8
63.8-67.6	65.0	0.9
52.2-56.0	53.0	0.8

## TEST 8

Accel Target	Static T/O	40% N1 to Target	High Idle to Target
95.1	96.8	4	7

N2 ADJ FOR 23.5K / 3C-1	ADJUSTED N2	MAX N2	%N2 MARGIN
0	96.5	97.2	0.7%

N2 ADJ FOR 23.5K / 3C-1	ADJUSTED N2	MAX N2	%N2 MARGIN
44.5	44.5	44.5	0.0%

QC Insp:

12

10-15-2021



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**ESN 858474**  
**CFM56-3C1**



**BORESCOPE  
REPORT**



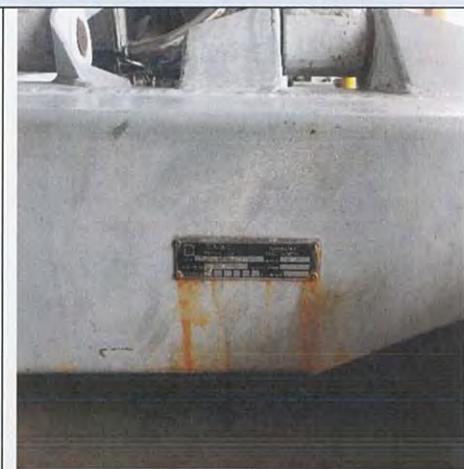
FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:
MODEL:	CFM56-3C1		DATE:	27/OCT/2020
POSITION:	N/A		INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10		PAGE:	<b>1 of 14</b>

### ENGINE DATA PLATE



### FAN BLADES (QTY 38)

#### BLADE CONDITION:

No significant damage noted IAW AMM B737 72-00-00.



#### DISPOSITION:

Serviceable.



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

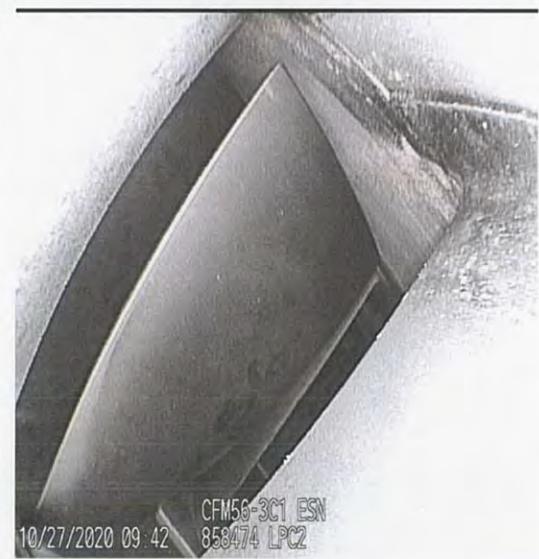
## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION: A&E Warehouse
MODEL:	CFM56-3C1		DATE:	27/OCT/2020
POSITION:	N/A		INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10		PAGE:	<b>2 of 14</b>

### **LOW PRESSURE COMPRESSOR STAGE 2 BLADES (QTY 68)**

**BLADE CONDITION:**

No significant damage noted IAW AMM B737 72-00-00.

**DISPOSITION:**

Serviceable.

### **LOW PRESSURE COMPRESSOR STAGE 3 BLADES (QTY 68)**

**BLADE CONDITION:**

No significant damage noted IAW AMM B737 72-00-00.

**DISPOSITION:**

Serviceable.



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1		DATE:	27/OCT/2020	
POSITION:	N/A		INSPECTOR:	Abraham Espinoza	
REASON:	Post Test 10		PAGE:	3 of 14	

### **LOW PRESSURE COMPRESSOR STAGE 4 BLADES (QTY 68)**

**BLADE CONDITION:**

No significant damage noted IAW AMM B737 72-00-00.

**DISPOSITION:**

Serviceable.

### **1<sup>ST</sup> STAGE HPC BLADES (QTY 38) PORTS S1/S2**

**BLADE CONDITION:**

No significant damage noted IAW AMM B737 72-00-00.

**DISPOSITION:**

Serviceable.



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

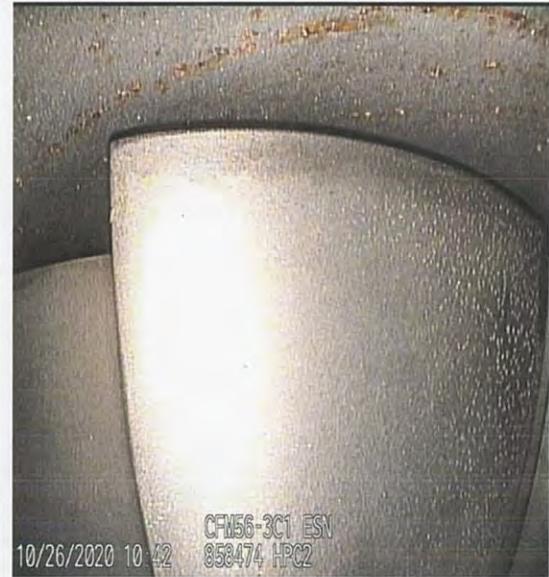
## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1			DATE:	27/OCT/2020
POSITION:	N/A			INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10		PAGE:	4 of 14	

### **2<sup>ND</sup> STAGE HPC BLADES (QTY 53) PORTS S2/S3**

#### BLADE CONDITION:

No significant damage noted IAW AMM B737 72-00-00.



CFM56-3C1 ESN  
10/26/2020 10:42 858474 HPC2

#### DISPOSITION:

Serviceable.

### **3<sup>RD</sup> STAGE HPC BLADES (QTY 60) PORTS S3/S4**

#### BLADE CONDITION:

Found several minor nicks on LE all within limit IAW AMM B737 72-00-00.



CFM56-3C1 ESN  
10/26/2020 10:59 858474 HPC3



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION: A&E Warehouse
MODEL:	CFM56-3C1		DATE:	27/OCT/2020
POSITION:	N/A		INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10		PAGE:	<b>5 of 14</b>

### 4<sup>TH</sup> STAGE HPC BLADES (QTY 68) PORTS S4/S5

#### BLADE CONDITION:

Found minor nick on LE within limit IAW AMM B737 72-00-00.



#### DISPOSITION:

Serviceable.

### 5<sup>TH</sup> STAGE HPC BLADES (QTY 75) PORTS S5/S6

#### BLADE CONDITION:

Found several nicks on LE largest .015" in depth in Dim. B within limit IAW AMM B737 72-00-00, See AMM for limit.



#### DISPOSITION:

Serviceable.

- (k) Tears, nicks, dents, missing material and erosion on the leading and trailing edge of stages 5-9 compressor blade found in DIM B.
- 1) No maximum number of tears, nicks, missing material and erosion if the damage is less than 0.04 inch (1.02 mm) in depth.
  - a) A maximum service extension of 10 cycles or 25 hours is permitted if the damage is more than 0.04 inch (1.02 mm) but less than 0.08 inch (2.03 mm) in depth.



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1			DATE:	27/OCT/2020
POSITION:	N/A			INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10		PAGE:	<b>6 of 14</b>	

### **6<sup>TH</sup> STAGE HPC BLADES (QTY 82) PORTS S6/S7**

#### BLADE CONDITION:

No significant damage noted IAW AMM B737 72-00-00.



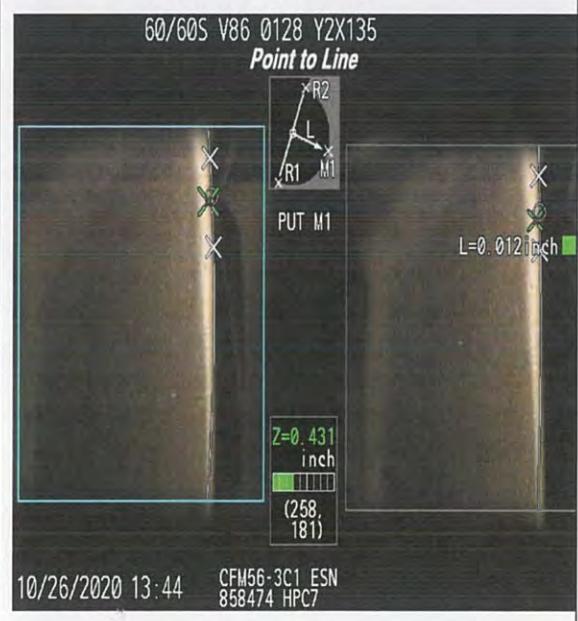
#### DISPOSITION:

Serviceable.

### **7<sup>TH</sup> STAGE HPC BLADES (QTY 82) PORTS S7/S8**

#### BLADE CONDITION:

Found minor nick on LE in lower 25% of the airfoil largest .012" in depth within limit IAW AMM B737 72-00-00, See AMM for limit.



#### DISPOSITION:

Serviceable.

- (g) Tears, nicks, dents, and missing material on the leading and trailing edge of stages 1 thru 9 compressor blades found in the lower 25% of the airfoil (but not in the root radius).
- 1) Tears are not permitted.
  - 2) No maximum number of nicks, dents and missing material if the damage is less than 0.03 inch (0.76 mm) in depth.



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1			DATE:	27/OCT/2020
POSITION:	N/A			INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10			PAGE:	<b>7 of 14</b>

### **8<sup>TH</sup> STAGE HPC BLADES (QTY 80) PORTS S8/S9**

#### BLADE CONDITION:

Found minor nick on lower 25% of the airfoil within limit IAW AMM B737 72-00-00.



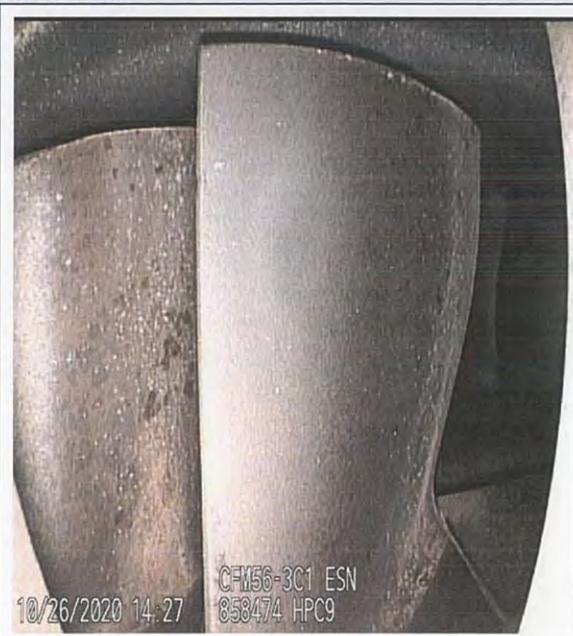
#### DISPOSITION:

Serviceable.

### **9<sup>TH</sup> STAGE HPC BLADES (QTY 76) PORTS S9**

#### BLADE CONDITION:

Found minor dent on LE within limit IAW AMM B737 72-00-00.



#### DISPOSITION:

Serviceable.



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

### CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1			DATE:	27/OCT/2020
POSITION:	N/A			INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10			PAGE:	<b>8 of 14</b>

#### **COMBUSTION CHAMBER PORTS S10-S15**

##### CONDITION:

No significant damage noted IAW AMM B737 72-00-00.



##### DISPOSITION:

Serviceable.

#### **DISCOURAGER SEALS PORTS S10-S15**

##### CONDITION:

Found craze cracks on surface within limit IAW AMM B737 72-00-00.



##### DISPOSITION:

Serviceable.



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EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1			DATE:	27/OCT/2020
POSITION:	N/A			INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10			PAGE:	<b>9 of 14</b>

### **HPT STAGE 1 NOZZLE GUIDE VANES PORTS S10-S15**

#### CONDITION:

Found coating loss and No significant damage noted IAW AMM B737 72-00-00.



#### DISPOSITION:

Serviceable.

### **1<sup>ST</sup> STAGE HPT TURBINE BLADES (QTY 72) PORTS S10-S11/S17**

#### BLADE CONDITION:

Found radial Tip cracks on concave side of the Airfoil and minor rubs on HPT shroud all within limit IAW AMM B737 72-00-00.



#### DISPOSITION:

Serviceable.



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

### CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION: A&E Warehouse
MODEL:	CFM56-3C1		DATE:	27/OCT/2020
POSITION:	N/A		INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10		PAGE:	<b>10 of 14</b>

#### LPT STAGE 1 NOZZLE ASSEMBLY PORTS S10-S11/S7

##### CONDITION:

Found several axial cracks on LE within limit IAW AMM B737 72-00-00.



##### DISPOSITION:

Serviceable.

#### 1<sup>ST</sup> STAGE LPT TURBINE BLADES (QTY 174) PORTS S17-S18/S20

##### BLADE CONDITION:

Found previous blend on LE and TE and No significant damage noted IAW AMM B737 72-00-00.



##### DISPOSITION:

Serviceable.



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1			DATE:	27/OCT/2020
POSITION:	N/A			INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10			PAGE:	<b>11 of 14</b>

### **2<sup>ND</sup> STAGE LPT TURBINE BLADES (QTY 162) PORTS S20/S21**

#### BLADE CONDITION:

Found previous blend on LE and TE and No significant damage noted IAW AMM B737 72-00-00.



CFM56-3C1 ESN  
858474 LPT2  
10/26/2020 16:47

### **3<sup>RD</sup> STAGE LPT TURBINE BLADES (QTY 157) PORTS S21/S22**

#### BLADE CONDITION:

Found previous blend on TE and No significant damage noted IAW AMM B737 72-00-00.



CFM56-3C1 ESN  
858474 LPT3  
10/26/2020 16:12



FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

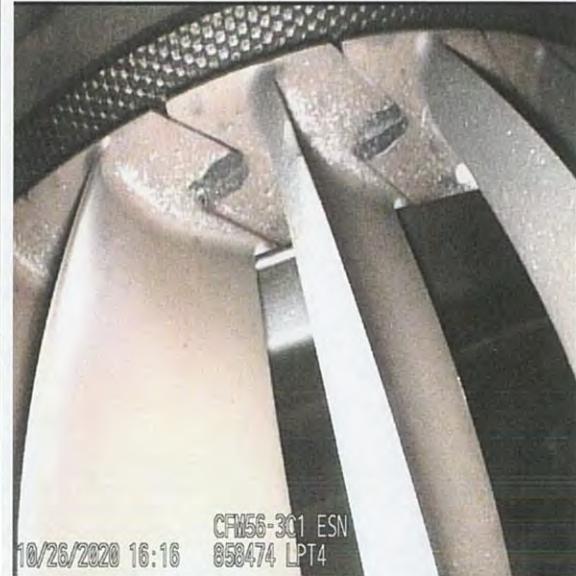
## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1			DATE:	27/OCT/2020
POSITION:	N/A			INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10			PAGE:	<b>12 of 14</b>

### **4<sup>TH</sup> STAGE LPT TURBINE BLADES (QTY 160) PORT S22**

#### BLADE CONDITION:

Found previous blend on LE and No significant damage noted IAW AMM B737 72-00-00.



#### DISPOSITION:

Serviceable.



### **EXTERNAL INSPECTION**

#### CONDITION:

No visual damage noted.

#### DISPOSITION:

Serviceable.



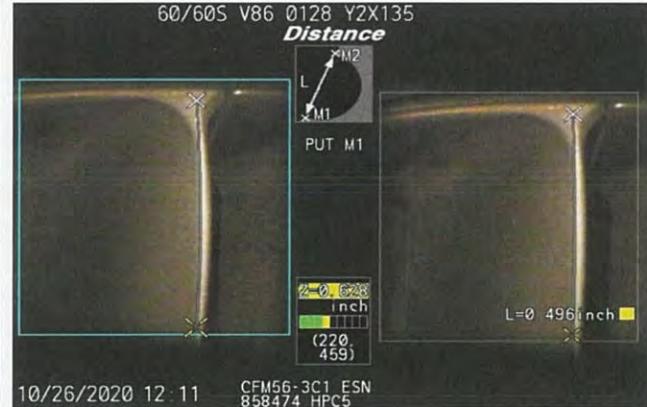
FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

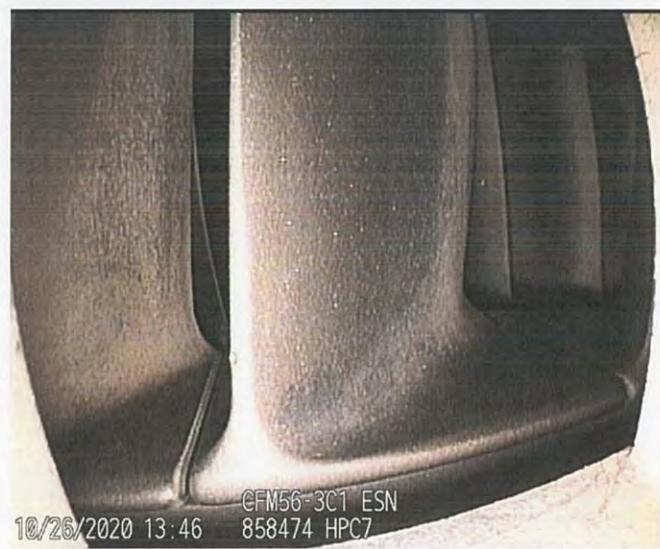
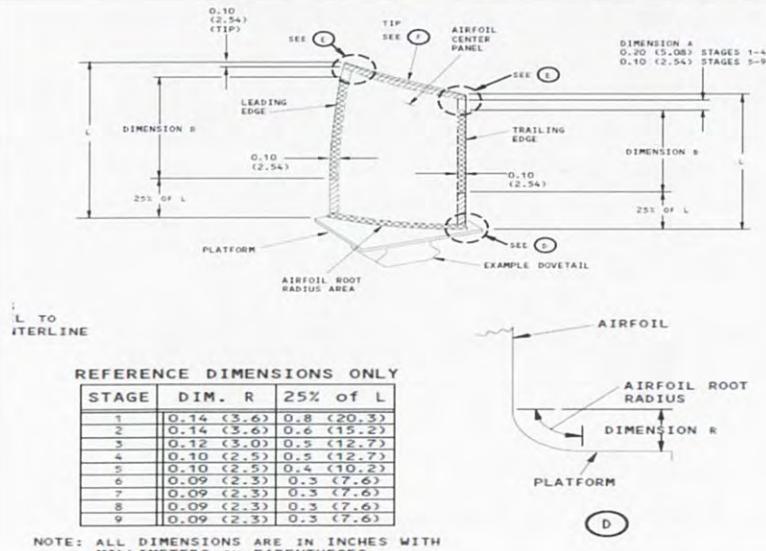
## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:
MODEL:	CFM56-3C1		DATE:	27/OCT/2020
POSITION:	N/A		INSPECTOR:	Abraham Espinoza
REASON:	Post Test 10		PAGE:	<b>13 of 14</b>

### ADDITIONAL PHOTOS



### ADDITIONAL PHOTOS





FAA CRS No. P5AR253J  
EASA No. 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271  
Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 BORESCOPE REPORT

WORK ORDER:	PA20074WA		CUSTOMER:	Power House	
ENGINE S/N:	858474	A/C TYPE:	B737	LOCATION:	A&E Warehouse
MODEL:	CFM56-3C1		DATE:	27/OCT/2020	
POSITION:	N/A		INSPECTOR:	Abraham Espinoza	
REASON:	Post Test 10		PAGE:	14 of 14	

### **OPERATION TO REMOVE AND INSTALL BORESCOPE PORT PLUGS**

	Tech.	INSP.
REMOVE BORESCOPE PORT PLUGS TO GAIN ACCESS TO ACCOMPLISH INSPECTION I/A/W AMM 72-00-00		
AFTER COMPLETION OF THE BORESCOPE INSPECTION, REINSTALLED REMOVED PORT PLUGS: TORQUED AND SAFETIED WIRE I/A/W AMM 72-00-00		
AFTER COMPLETION OF THE BORESCOPE INSPECTION, Accomplished independent inspection of re-installation of AGB hand cranking pad cover after borescope inspection I/A/W AD2013-26-01. N/A due to P/N 335-300-112-0 AGB installed.		

### **COMMENTS:**

Engine Condition: Serviceable.

This report and the accompanied video is submitted on behalf of Precise Aviation, INC. and subject to the condition that is understood and agreed that the contents are based on diligent inspection and are exclusive of latent defects in materials, rigging or systems not detectable without removal or disassembly; but are believed to be correct and fairly representative of the condition of the engine at the time of inspection and prior to any operation. Furthermore the client acknowledges that Precise Aviation, INC. liability with regards to the work performed is limited to the amount of the invoice. This survey is submitted without prejudice and in confidence to the named client and is without responsibility to others to whom it may be shown. The engine(s) inspected were prepared for borescope and returned to original condition by another facility contracted by the client and not affiliated with Precise Aviation, INC. Maintenance Manual pages attached to this report, if any, are uncontrolled and are for general reference only. Verify limits with current AMM effective for this engine and/or aircraft.

The above borescope inspection and report was performed and prepared by: Abraham Espinoza

Inspector:



Date: 27/OCT/2020



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**ESN 858474  
CFM56-3C1**



**QEC  
INVENTORY**

# Precise Aviation, INC

8446 NW 58 Street, Miami, FL 33166  
FAA CRS P5AR253J / EASA 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271

[Email: Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
[Email: Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 QEC INVENTORY

ENGINE SERIAL NO.: 858474

Date : 27-OCT-2020

ENGINE MODEL: CFM56-3C1

W/O: PA20074WA

DESCRIPTION	TYPICAL P/N	REFERENCE	QTY	P/N	S/N	Installed Y / N
MEC	1459M27P06 (8063-215) (-3C1)	73-21-10-1-010	1	8063-210	WYG77057	Y
Main Fuel Pump	301-779-001-0 (708600-2)	73-11-10-1-010	1	708600-7	19082	Y
Fuel / Oil Heat Exchanger	301-776-402-0 (69202-300-2)	79-21-20-1-010	1	301-776-403-0	13695	Y
Servo Fuel Heater	301-776-501-0 (45731-1251-1)	73-00-00-40-051	1	301-776-501-0	FHS14782	Y
CIT Sensor	9334M96P02 (8901-274)	73-21-20-1-010	1	Not Visible	Not Visible	Y
PMC	7157M68P04 (-3C1)	73-21-30-1-010	1	7157M68P04	ECDB5645	Y
Lubrication Unit	335-261-004-0	79-21-10-1-010	1	335-261-005-0	7961	Y
Oil Scavenge Filter	QA03639ISS8 / QA06961ISS3	79-21-30-1-010 / 011	1	Not Visible	Not Visible	Y
Accessory Gearbox - AGB	335-300-110-0	72-63-00-1-001	1	335-300-112-0	WB7642	Y
Transfer Gearbox - TGB	335-300-012-0	72-62-00-1-001	1	335-300-011-0	VB3059	Y
HPT Active Clearance Control Valve (HPTACCV)	7061M31G04	75-21-10-1-010	1	7061M31G05	GAT5D923	Y
HPT Active Clearance Control Valve Timer	7119M71G07	72-00-00-86-010	1	7119M71G07	GOS22272	Y
HPT Active Clearance Control Valve Solenoid	301-787-401-0 (3264-100)	72-00-00-84-901	1	Not Visible	Not Visible	Y
Bleed Flow Bias Sensor	7082M47G07	75-00-00-31-010	1	7082M47G07	W1N155CT	Y
Stage 5 Start Air Bleed Valve	1527M90P01 (324495)	75-00-00-35-230	1	1527M90P01	MC6B777	Y
Fuel Nozzles	1317M47G01 / G17	73-11-40-1A-020	20	Multiples	Multiples	Y
VBV Fuel Gear Motor	301-776-704-0 (706400-4)	75-31-10-1-010	1	301-776-704-0	YA024103-V	Y
VBV Feedback Cable	580-268-041	75-31-00-1-010	1	580-268-041	Not Visible	Y
VSV Actuator - L/H	1521M72P01 (1211175-011)	75-32-10-1-012	1	1211175-011	APMBT808	Y
VSV Actuator - R/H	1521M72P01 (1211175-011)	75-32-10-1-112	1	1211175-011	APMBT129	Y
VSV Feedback Cable	580-285-054	75-32-20-1-010	1	2604880-001	1834	Y
Ignition Exciter Box - Upper	9238M66P07 (10-631045-1)	74-00-00-2-010	2	10-631045-1	UNNEC059	Y
Ignition Exciter Box - Lower	9238M66P07 (10-631045-1)	74-00-00-2-010	1	10-631045-1	UNNED047	Y

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[Email: Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
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## CFM56-3 QEC INVENTORY

ENGINE SERIAL NO.: 858474

Date : 27-OCT-2020

ENGINE MODEL: CFM56-3C1

W/O: PA20074WA

DESCRIPTION	TYPICAL P/N	REFERENCE	QTY	P/N	S/N	Installed Y / N
Ignition Lead - L/H	9339M26P14 (9043185-14)	74-00-00-2-120	1	9339M26P16	Not Visible	Y
Ignition Lead - R/H	9339M26P13 (9043185-13)	74-00-00-2-130	1	9043185-13	V6053	Y
Igniter Plug - L/H	CH31900 / 9044035-1	74-00-00-2-661	1	Not Visible	Not Visible	Y
Igniter Plug - R/H	CH31900 / 9044035-1	74-00-00-2-510	1	Not Visible	Not Visible	Y
Oil Tank	335-261-202-0	79-11-10-1-010	1	335-261-203-0	4868	Y
N1 Speed Sensor	320-094-001-0	77-11-10-1-010	1	320-094-001-0	14156	Y
N2 Rotor Alternator	9974M83P01 (49574)	72-00-00-15-620	1	Not Visible	Not Visible	Y
N1 Vibration Transducer	301-777-001-0 (6237M69A)	72-00-01-1-090	1	Not Visible	Not Visible	Y
N2 Vibration Transducer	301-779-602-0 (6237M86B)	72-00-00-82-010	1	301-779-602-0	12768	Y
T1.2 Sensor	301-798-601-0 (154BY)	73-21-40-1-010 (71-00-02-19-1-050) 73-21-25-1-010 (71-00-02-19-1-100)	1	301-771-601-0	08843	Y
T2 Sensor	9375M82P04 (8901-278)		1	9375M82P04	WYG61294	Y
Control Alternator	9974M82P03 (44376-1)	77-11-20-1-010	1	9974M82P03	GJAH7504	Y
Left Thrust Link Fitting	310A1036-2	71-00-02-2-1-005	1	Not Visible	Not Visible	Y
Left Fan Case Support Assembly	310A1020-17-19	71-00-02-2-1-030	1	310A1020-29	Not Visible	Y
Right Thrust Link Fitting	310A1036-1	71-00-02-2-2-005	1	Not Visible	Not Visible	Y
Right Fan Case Support Assembly	310A1020-18-30	71-00-02-2-2-030	1	310A1020-30	5487	Y
Cone Bolt R/H	310A1041-1/-2/-5/-7	71-21-13-070	1	310A1041-5	BACE1187	Y
Cone Bolt L/H	310A1041-1/-2/-5/-7	71-21-13-070	1	310A1041-5	7997	Y
Thrust Link Assembly	310A1020-20		1	Not Installed	Not Installed	N
Aft Engine Mount Assembly	310A1020-14/21/-22/-26	71-00-02-2-3-005	1	Not Visible	JG097	Y
Shoulder Bolts	310T1036-9/-12	71-00-02-2-3-010	2	310T1036-10	Not Applicable	Y

 ORIGINAL

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FAA CRS P5AR253J / EASA 145.5310

AOG No. (786) 237-1461  
AOG No. (954) 471-5271

[Email: Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
[Email: Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 QEC INVENTORY

ENGINE SERIAL NO.: 858474

Date : 27-OCT-2020

ENGINE MODEL: CFM56-3C1

W/O: PA20074WA

DESCRIPTION	TYPICAL P/N	REFERENCE	QTY	P/N	S/N	Installed Y / N
Extension Ring Assembly	333A1100-9/-10/-12	71-00-02-3-3-005	1	333A1100-13	3778001	Y
Extension Ring Fitting -L/H	315A1066-11/-13/-19/-23	71-00-02-3-3-165	1	Not Visible	Not Visible	Y
Extension Ring Fitting - R/H	315A1066-12/-14/-24/-30	71-00-02-3-3-405	1	Not Visible	Not Visible	Y
Fuel Flow Transmitter	S347T001-6 (8TJ124GGM1)	71-00-002-7-1-020	1	8TJ124GGM1	A0330	Y
Downstream Filter	P/N AS APPLICABLE	CFMI SB 73-134	1	FA00914D	YY018284-1	Y
Fuel Supply Inlet Hose	S332A004-2 (109003-2)	71-00-02-7-2-005	1	S332A004-2	Not Applicable	Y
Fuel Filter Differential Pressure Switch	S332AT004-7 (21SN04-209A)	71-00-02-7-3-005	1	21SN04-209A	U0252B	Y
Bleed Air Regulator	10-62008-23, -37 (107492-2, -3) 10-62008-15/-31/-19 (107484- 3/-5/-6)	71-00-02-8-1-015	1	107492-6	7029	Y
High Stage Regulator		71-00-02-8-1-310	1	10-62008-39	2879C	Y
Upper Left 5th Stage Duct Assembly - 1 piece config.	332A1320-1	71-00-02-8-2-008	1	332A1320-1	No Serial number	Y
Upper Left 5th Stage Duct Assembly - 2 piece config.	332A1303-12/-15/-16	71-00-02-8-2-010	1	Not Applicable	Not Applicable	N/A
TAI Duct	332A1312-14/-9	71-00-02-8-2-020	1	Not Visible	Not Visible	Y
Lower 5th Stage Bleed Duct Segment	332A1304-23/-24	71-00-02-8-2-040	1	332A1304-24	1894	Y
LP 5th Stage Check Valve	10-62008-1 (3202222-1)	71-00-02-8-2-065	1	3202222-1	6996	Y
Lower 9th Stage Bleed Duct Segment - 4 piece duct config.	332A1306-1	71-00-02-8-3-005	1	Not Applicable	Not Applicable	N/A
Left 9th Stage Bleed Duct Segment- 4 piece duct config.	332A1305-9	71-00-02-8-3-035	1	Not Applicable	Not Applicable	N/A
Manifold - 9th Stage Bleed Duct Segment - 4 piece duct config.	332A1308-7	71-00-02-8-3-065	1	Not Applicable	Not Applicable	N/A
Right 9th Stage Bleed Duct Segment - 4 piece duct config.	332A1307-12	71-00-02-8-3-080	1	Not Applicable	Not Applicable	N/A
9th Stage Bleed Duct Segment - 2 piece duct config.	332A1330-1	71-00-02-8-3-110	1	332A1330-1	No Serial number	Y
Left 9th Stage Bleed Duct Segment- 2 piece duct config.	332A1305-9	71-00-02-8-3-145	1	Not Visible	Not Visible	Y
Lower 9th Stage Bleed Duct Segment - 3 piece config.	332A1306-1	71-00-02-8-3-005	1	Not Applicable	Not Applicable	N/A
Left 9th Stage Bleed Duct Segment - 3 piece duct	332A1305-9	71-00-02-8-3-035	1	Not Applicable	Not Applicable	N/A

# Precise Aviation, INC

8446 NW 58 Street, Miami, FL 33166  
FAA CRS P5AR253J / EASA 145.5310

AOG No. (786) 237-1461

AOG No. (954) 471-5271

[Email: Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)

[Email: Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 QEC INVENTORY

ENGINE SERIAL NO.: 858474

Date : 27-OCT-2020

ENGINE MODEL: CFM56-3C1

W/O: PA20074WA

DESCRIPTION	TYPICAL P/N	REFERENCE	QTY	P/N	S/N	Installed Y / N
Right / Manifold Bleed Segment - 3 piece duct	332A1317-1 10-62-008-2, -17, -29, -32 (3214446-2, -3, -4)	71-00-02	1	Not Visible	Not Visible	Y
High Stage / High Pressure Shut-Off Valve		71-00-02-8-3-175	1	3214446-4	2800	Y
Right 9th Stage Bleed Duct Segment	332A1311-20 / -30	71-00-02-8-3-195	1	332A1311-30	Not Visible	Y
Duct Assembly - 9th Stage to 5th Stage Junction Manifold	332A1327-5 / -11 10-62008-20 / -28 / -33 (3289562-3 / -4 / -5)	71-00-02-8-3-200	1	Not Visible	Not Visible	Y
Fan Air / Precooler Control Valve		71-00-02-8-4-005	1	3289562-4	404C	Y
Pressure Regulating and Shut-Off Valve	10-62008-21 / -30 (3214552-4 /-5)	71-00-02-8-5-005	1	10-62008-30	1594	Y
Oil Pressure Transmitter	418-20044	71-00-02-9-1-005	1	418-20044	9415130	Y
Low Oil Pressure Switch	10-3269-12 (21SN04-211A)	71-00-02-9-2-005	1	21SN04-211A	U01633B	Y
Oil Filter Differential Pressure Switch	10-3269-13 (21SN04-226A)	71-00-02-9-3-005	1	21SN04-226A	AC1466	Y
Oil Temperature Transmitter	1122514-3PIN (56B94-7 PIN)	71-00-02-9-3-125	1	1122514-3	O2454	Y
Oil Quantity Transmitter	10-60722-11 (20041-0000-03)	71-00-02-9-3-010	1	10-60722-11	1499G	Y
Fuel Control Box Assembly - CFM56-3C1 for B737-500	315A1040-11	71-00-02-10-1-005	1	Not Installed	Not Installed	N
Fuel Control Box Assembly - CFM56-3C1 for B737-300	315A1040-7	71-00-02-10-1-005	1	Not Installed	Not Installed	N
Fuel Control Box Assembly - CFM56-3B for B737-300	315A1040-6	71-00-02-10-1-005	1	Not Installed	Not Installed	N
Exhaust Plug	314A1501-9/-13/-16/-18	71-00-02-11-1-025	1	Not Visible	Not Visible	Y
Exhaust Sleeve	314A1502-1/-37/-51/-58/-59/-71	71-00-02-11-1-045	1	314A1502-71	Not Visible	Y
Constant Speed Drive (CSD)	10-61066-11 (735511A)	71-00-02-12-1-045	1	735511A	B3180	Y
CSD QAD Ring	693608	71-00-02-12-1-035	1	10-60295-15	17440	Y
AC Generator	10-61224-12 (976J498-2)	71-00-02-12-1-100	1	976J498-2	MZ14296	Y
By-Pass Air Duct Segment - Fan Case - R/H	332A1200-3	71-00-02-12-2-005	1	Not Visible	Not Visible	Y
AC Generator Cooling Air Adapter	332A1025-2	71-00-02-12-2-040	1	Not Visible	Not Visible	Y
By-Pass Air Duct Segment - Lower Fan Case Fwd	332A1200-1/-8/-9	71-00-02-12-2-065	1	Not Visible	Not Visible	Y

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[Email: Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)

Email: Rolando@preciseaviation.com

## CFM56-3 QEC INVENTORY

ENGINE SERIAL NO.: 858474

Date : 27-OCT-2020

ENGINE MODEL: CFM56-3C1

W/O: PA20074WA

DESCRIPTION	TYPICAL P/N	REFERENCE	QTY	P/N	S/N	Installed Y / N
Elbow - 1 piece Collector Ring Only	332A1202-1	72-00-02-12-2-150	1	Not Applicable	Not Applicable	N/A
Collector Ring - 1 piece Only	332A1201-37/-41/-51/-52	72-00-02-12-2-155	1	Not Applicable	Not Applicable	N/A
Collector Ring - 2 piece Only	332A1201-54/-53/-64	72-00-02-12-2-152/-156	1	332A1201-54	Not Visible	Y
CSD Generator Oil Cooler	10-61233-11 (UA538551-2)	71-00-02-12-(3/7)-005	1	10-61233-11	3895	Y
Oil Cooler Filter	7581418	71-00-02-12-(4/8)-015	1	Not Visible	Not Visible	Y
Oil Temperature Switch	975-0221-001	71-00-02-12-(4/8)-075	1	975-0221-001	7067	Y
Hydraulic Pump - Vickers, Steel Spline	10-61794-1 (371380	71-00-02-13-1-15	1	Not Applicable	Not Applicable	N/A
Hydraulic Pump - Vickers, Vespel Spline	10-61794-2 (623337)	71-00-02-13-1-115	1	Not Applicable	Not Applicable	N/A
Hydraulic Pump QAD Clamp	374105	71-00-02-13-1-80-180	1	Not Visible	No Serial number	Y
Hydraulic Pump QAD Adapter	374105	71-00-02-13-1-75	1	Not Applicable	Not Applicable	N/A
Hydraulic Pump - Abex Steel Spline	10-80470-10 (55098-01)	71-00-02-13-2-175	1	Not Applicable	Not Applicable	N/A
Hydraulic Pump - Abex with QAD Adapter	10-60470-13 (65075-08)	71-00-02-13-2-115	1	65075-08	No Serial number	Y
Hydraulic Pump - Abex Incl. Vespel Spline	10-60470-12 (55098-08)	71-00-02-13-2-315	1	55098-08	15812TR	Y
Hydraulic Pump - Abex Large Capacity with QAD Adapter	10-62167-2 (66087)	71-00-02-13-2-415	1	Not Applicable	Not Applicable	N/A
Hydraulic Pump QAD Clamp	22807	71-00-02-13-2-179-479	1	22807	No Serial number	Y
Hydraulic Pump QAD Adapter	55745	71-00-02-13-2-175-475	1	Not Applicable	Not Applicable	N/A
Hydraulic Supply Hose	S332A005-15	71-00-02-13-3-010	1	Not Visible	Not Visible	Y
Hydraulic Pressure Hose - Abex Pump	S332A005-14	71-00-02-13-3-020	1	S332A005-14	0656	Y
Hydraulic Pressure Hose - Vickers Pump	S332A005-12	71-00-02-13-3-020	1	Not Applicable	Not Applicable	N/A
Hydraulic Case Drain Hose	S332A005-17	71-00-02-13-3-030	1	S332A005-17	3012	Y
Quick Disconnect (Large)	S270T202-11	71-00-02-13-3-5	1	S270T202-11	0620	Y
Quick Disconnect (Medium)	S270T202-13	71-00-02-13-3-13	1	S270T202-13	1466	Y
Quick Disconnect (Small)	S270T202-15	71-00-02-13-3-15	1	S270T202-15	310	Y

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Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)

Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 QEC INVENTORY

ENGINE SERIAL NO.: 858474

ENGINE MODEL: CFM56-3C1

Date : 27-OCT-2020

W/O: PA20074WA

DESCRIPTION	TYPICAL P/N	REFERENCE	QTY	P/N	S/N	Installed Y / N
Coupling (Small)	S332A005-18 / AE83617G	71-00-02-13-3-126	1	S332A005-18	2948	Y
Coupling (Medium)	S332A005-13 / AE83617J	71-00-02-13-3-127	1	S332A005-13	2279	Y
Coupling (Large)	S332A005-16 / AE83617M	71-00-02-13-3-128	1	S332A005-16	1430	Y
Starter	3505526-3-1/-5-1/-6-1, 3505716-3/-5/-6	71-00-02-14-1-020	1	3505716-6	8386	Y
Start Air Valve	S332A002-1/-3/-2 (3289630-1/-3/-2)	71-00-02-14-1-035	1	S332A002-2	3475	Y
Starter Air Duct Assembly	332A1301-1	71-00-02-14-2-005	1	S332A1301-1	Not Visible	Y
TAI Valve	S332A101-5/-6/-7/-8 (172625-5/-6/-7, 3290662-1)	71-00-02-15-1-055	1	172625-7	3103CD	Y
Upper Duct Assembly	332A1314-19	71-00-02-15-1-025	1	Not Visible	Not Visible	Y
TAI Pressure Switch	21SN41-52	71-00-02-15-1-125	1	21SN41-52	F014936A	Y
TAI "S" Tube	332A1035-2	71-00-02-15-1-155	1	Not Visible	Not Visible	Y
TAI "S" Tube Elbow	BACE21BT0606JN	71-00-02-15-1-150	1	Not Visible	Not Visible	Y
Fire Detector - Upper R/H Fan Case - with terminals	472583 / 472583-1	71-00-02-16-1-005	1	472583	O530	Y
Fire Detector - Upper R/H Fan Case - with connectors	472094	71-00-02-16-1-005	1	Not Applicable	Not Applicable	N/A
Fire Detector- Lower Fan Case - with terminals	472584 / 472584-1	71-00-02-16-1-010	1	472584	O339	Y
Fire Detector- Lower Fan Case - with connectors	899321	71-00-02-16-1-010	1	Not Applicable	Not Applicable	N/A
Fire Detector - Turbine Case - with terminals	472582 / 472582-1	71-00-02-16-1-015	1	472582	O612	Y
Fire Detector - Turbine Case - with connectors	899323	71-00-02-16-1-015	1	Not Applicable	Not Applicable	N/A
Fire Warning Conversion Kit	301A0200-6	S/B 737-26-1065	1	Not Applicable	Not Applicable	N/A
Fire Detector - Upper R/H Fan Case	10-61096-55 (6674)	71-00-02-16-2-005	1	Not Applicable	Not Applicable	N/A
Fire Detector- Lower Fan Case	10-61096-56 (6676)	71-00-02-16-2-010	1	Not Applicable	Not Applicable	N/A
Fire Detector - Turbine Case	10-61096-58 (6678)	71-00-02-16-2-015	1	Not Applicable	Not Applicable	N/A

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AOG No. (954) 471-5271

Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)

Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 QEC INVENTORY

ENGINE SERIAL NO.: 858474

Date : 27-OCT-2020

ENGINE MODEL: CFM56-3C1

W/O: PA20074WA

DESCRIPTION	TYPICAL P/N	REFERENCE	QTY	P/N	S/N	Installed Y / N
EGT Harness (LOWER)	CA152-01-02	77-20-21-02	1	CA152-02	18359	Y
EGT Harness (UPPER)	CA151-01-02	77-20-21-02	1	CA151-00	18293	Y
EGT Harness (L/H)	TC174-01	77-20-21-02	1	TC174-01	YC230133-9	Y
EGT Harness (L/H)	TC174-01	77-20-21-02	1	TC174-02	15639	Y
EGT Harness (R/H)	TC200-01	77-20-21-02	1	TC200-02	18015R	Y
EGT Harness (FWD)	CA150-00	77-20-21-02	1	CA150-00	15248	Y
Wire Bundle Assembly (GENERATOR)	P/N AS APPLICABLE	71-00-02-18	1	Not Visible	Not Visible	Y
Wire Bundle Assembly (FAN)	P/N AS APPLICABLE	71-00-02-18	1	Not Visible	Not Visible	Y
Wire Bundle Assembly (ENGINE CORE)	P/N AS APPLICABLE	71-00-02-18	1	Not Visible	Not Visible	Y

 ORIGINAL

# Precise Aviation, INC

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AOG No. (786) 237-1461  
AOG No. (954) 471-5271

Email: [Abraham@preciseaviation.com](mailto:Abraham@preciseaviation.com)  
Email: [Rolando@preciseaviation.com](mailto:Rolando@preciseaviation.com)

## CFM56-3 QEC INVENTORY

ENGINE SERIAL NO.: 858474

Date : 27-OCT-2020

ENGINE MODEL: CFM56-3C1

W/O: PA20074WA

DESCRIPTION	TYPICAL P/N	REFERENCE	QTY	P/N	S/N	Installed Y / N
ENGINE DATA PLATE			1	CFM56-3C1	858474	Y

TECH  
PA  
03

TECH. SIGNATURE:

INSP.SIGNATURE:



A handwritten signature, likely belonging to the inspector, placed next to the stamp.

DATE: 27-OCT-2020



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**ESN 858474**  
**CFM56-3C1**



**NON-ROUTINE**

8446 NW 58 ST

Miami, FL 33166

F.A.A. Repair Station No. P5AR253J. EASA No. 145.5310

Control Number: 001

Work Order No: PA20074WA

Customer: Power House

Date: 09/OCT/2020

Engine model: CFM56-3C1

Serial No: 858474

***NON ROUTINE FORM:******Discrepancy:*** Due to indication problems during Test run remove and replace oil pressureTransmitter, Starter control valve and 1 each Thermocouple harness and probe IAW AMM B737  
79-32-01, 80-11-03 & 77-21-01.***Corrective Action:*** Removed and Replaced and installed Oil Pressure Transmitter, Starter control  
valve and 1 each Thermocouple harness and probe IAW AMM B737 79-32-01, 80-11-03 &  
77-21-01.

Items	Work in progress	DATE	TECH	INSP
01. <input type="checkbox"/>	Removed and replaced and Installed Oil Pressure Transmitter.	09/OCT/2020	mE	Abraham E.
02. <input type="checkbox"/>	Removed and replaced and Installed Starter control Valve.	09/OCT/2020	mE	Abraham E.
03. <input type="checkbox"/>	Removed and replaced and Installed 1 each Thermocouple harness and probe.	09/OCT/2020	mE	Abraham E.
04. <input type="checkbox"/>				
05. <input type="checkbox"/>				
06. <input type="checkbox"/>				
07. <input type="checkbox"/>				

Part Name	Part No. Off	Serial No. Off	Part No. On	Serial No. On	Tech	Insp.
Oil Pressure Transmitter	418-20044	9119227	418-20044	9415130	mE	Abraham E.
Starter Control Valve	3289630-2	328C	3289630-2	3475	mE	Abraham E.
Thermocouple harness and probes	TC200-02	15645R	301-785-003-0	18015R	mE	Abraham E.

"THE ABOVE MENTIONED ITEM ON THIS WORK ORDER HAS BEEN MAINTAINED AND INSPECTED PER CURRENT FAA REGULATIONS  
AND WITH RESPECT TO THE WORK PERFORMED ARE APPROVED FOR RELEASE TO SERVICE BY PRECISE AVIATION INC. CRS #  
P5AR253J".

TECH SIGNATURE-----

INSP. SIGNATURE-----



09/OCT/2020

DATE-----

**ORIGINAL**

8446 NW 58 ST

Miami, FL 33166

F.A.A. Repair Station No. P5AR253J. EASA No. 145.5310

Control Number: 002

Work Order No: PA20074WA

Customer: Power House

Date: 13/OCT/2020

Engine model: CFM56-3C1

Serial No: 858474

***NON ROUTINE FORM:***

***Discrepancy:*** Due to engine performance during Test run remove and replace Main Engine Control IAW AMM B737 73-21-01.

***Corrective Action:*** Removed and Replaced and installed Main Engine Control IAW AMM B737 73-21-01.

Items	Work in progress	DATE	TECH	INSP
01. <input type="checkbox"/>	Removed and Replaced and Installed Main Engine Control.	13/OCT/2020	ME	Abraham E.
02. <input type="checkbox"/>				
03. <input type="checkbox"/>				
04. <input type="checkbox"/>				
05. <input type="checkbox"/>				
06. <input type="checkbox"/>				
07. <input type="checkbox"/>				

Part Name	Part No. Off	Serial No. Off	Part No. On	Serial No. On	Tech	Insp.
Main Engine Control	8063-210	WYG77112	8063-210	WYG77057	ME	Abraham E.

"THE ABOVE MENTIONED ITEM ON THIS WORK ORDER HAS BEEN MAINTAINED AND INSPECTED PER CURRENT FAA REGULATIONS AND WITH RESPECT TO THE WORK PERFORMED ARE APPROVED FOR RELEASE TO SERVICE BY PRECISE AVIATION INC. CRS # P5AR253J".

TECH SIGNATURE

INSP. SIGNATURE



13/OCT/2020

**ORIGINAL**

8446 NW 58 ST

Miami, FL 33166

F.A.A. Repair Station No. P5AR253J. EASA No. 145.5310

Control Number: 003

Work Order No: PA20074WA

Customer: Power House

Date: 26/OCT/2020

Engine model: CFM56-3C1

Serial No: 858474

***NON ROUTINE FORM:***

**Discrepancy:** Post Engine run inspect the fuel filter cartridge, scavenge oil filter element, magnetic chip detectors in the lube unit, magnetic chip detector in the CSD and inspect the CSD oil filter and integral oil filter Pop-out indicator has not popped per AMM B737 71-00-00 Test 10 Replacement Engine Test (Untested).

**Corrective Action:** Inspected fuel filter cartridge, scavenge oil filter element, magnetic chip detectors in the lube unit, magnetic chip detector in the CSD and inspected the CSD oil filter and CSD integral oil filter pop-out indicator has not popped IAW AMM B737 73-11-02, 79-21-06, 79-21-05 and 24-11-11.

Items	Work in progress	DATE	TECH	INSP
01. <input type="checkbox"/>	Inspected fuel filter cartridge.	26/OCT/2020	ME	Abraham E.
02. <input type="checkbox"/>	Inspected scavenged oil filter element.	26/OCT/2020	ME	Abraham E.
03. <input type="checkbox"/>	Inspected magnetic chip detectors in the lube unit.	26/OCT/2020	ME	Abraham E.
04. <input type="checkbox"/>	Inspected magnetic chip detectors in the CSD.	26/OCT/2020	ME	Abraham E.
05. <input type="checkbox"/>	Inspected CSD oil filter and CSD integral oil filter pop-out indicator has not popped.	26/OCT/2020	ME	Abraham E.
06. <input type="checkbox"/>				
07. <input type="checkbox"/>				

Part Name	Part No. Off	Serial No. Off	Part No. On	Serial No. On	Tech	Insp.
Fuel filter	7597062-101	N/A	7597062-101	N/A	ME	Abraham E.
Scavenger oil filter	7593194-101	N/A	7593194-101	N/A	ME	Abraham E.

"THE ABOVE MENTIONED ITEM ON THIS WORK ORDER HAS BEEN MAINTAINED AND INSPECTED PER CURRENT FAA REGULATIONS AND WITH RESPECT TO THE WORK PERFORMED ARE APPROVED FOR RELEASE TO SERVICE BY PRECISE AVIATION INC. CRS # P5AR253J".

TECH SIGNATURE-----

INSP. SIGNATURE-----



26/OCT/2020

**ORIGINAL**

PRECISE AVIATION, INC.

FORM MA-0003

8446 NW 58 ST

Miami, FL 33166

F.A.A. Repair Station No. P5AR253J. EASA No. 145.5310

Control Number: 004

Work Order No: PA20074WA

Customer: Power House

Date: 27/OCT/2020

Engine model: CFM56-3C1

Serial No: 858474

***NON ROUTINE FORM:******Discrepancy:*** For shipping purposes drain oil from Engine system and drain Fuel system

IAW AMM B737 12-13-11 and 73-11-01.

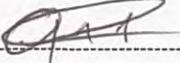
***Corrective Action:*** Drained oil from Engine system and drained Fuel system IAW AMM B737

12-13-11 and 73-11-01. See Carried Over Sheet for servicing of the oil system prior to engine operation.

Items	Work in progress	DATE	TECH	INSP
01. <input type="checkbox"/>	Drained oil from Engine system and drained fuel system.	27/OCT/2020	ME	Abraham E
02. <input type="checkbox"/>				
03. <input type="checkbox"/>				
04. <input type="checkbox"/>				
05. <input type="checkbox"/>				
06. <input type="checkbox"/>				
07. <input type="checkbox"/>				

Part Name	Part No. Off	Serial No. Off	Part No. On	Serial No. On	Tech	Insp.

"THE ABOVE MENTIONED ITEM ON THIS WORK ORDER HAS BEEN MAINTAINED AND INSPECTED PER CURRENT FAA REGULATIONS  
AND WITH RESPECT TO THE WORK PERFORMED ARE APPROVED FOR RELEASE TO SERVICE BY PRECISE AVIATION INC. CRS #  
P5AR253J".

TECH SIGNATURE INSP. SIGNATURE 

27/OCT/2020

DATE





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**ESN 858474  
CFM56-3C1**



**CARRY OVER -  
OPEN ITEMS LIST**

**PRECISE AVIATION, INC.**  
**8446 NW 58<sup>th</sup> Street, Miami, FL 33166**  
**F.A.A. 145 CRS # P5AR253J/ EASA 145.5310**

Purchase Order No.: 12012

Customer: Power House

Engine Model: CFM56-3C1

Eng. TSN: 39,115.24

Work Order No.: PA20074WA

Date: 27-OCT-2020

Serial No.: 858474

Eng. CSN: 47,491.

***The following tasks must be completed and signed prior to return to service***

<b>NO.</b>	<b>Description of open items carried over</b>	<b>Completed by</b>
1	Service Oil System prior to engine Operation IAW AMM B737 12-13-11 latest Rev.	
2	Perform test No. 3 - Idle Leak check- IAW AMM B737 71-00-00 latest Rev.	
3	-----END-----	
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

The items above have been carried over from the issued 8130 and must be completed prior to the engine being considered for return to service.

ABOVE ITEMS GENERATED BY: Abraham Espinosa  DATE: \_\_\_\_\_

27-OCT-2020