



LIFE LIMITED PARTS STATUS

Print date: 03.02.22 14:00
Page: 1 of 2

ENGINE MODEL: **CF6-80C2B5F** TSN: 85 045:13 TSI: 2 395:13
SERIAL NUMBER: **704539** CSN: 20 461 CSI: 477
INSTALLED ON A/C: VQ-BWW POS: 4 DATE INSTALLED: 25.07.21 DATE REMOVED:

DESCRIPTION	PART NUMBER	SERIAL NUMBER	TSN	CSN	ENGINE MODEL	TOTAL/RAITING		LIFE LIMIT CATEGORY	REMAINING CATEGORY
						Hours	Cycles		

DESCRIPTION:	FAN MODULE	P/N:	C2FANMOD1	S/N:	FAN704539				
SHAFT ASSY, FAN FWD	1855M57G01	GWNGJ888	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155
DISK STAGE 1	1703M77P02	GWNKT027	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155
SHAFT	1862M48P01	RPMFA9N1	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155
SPOOL - FAN ROTOR	1856M71P06	VOL96111	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	8321
					CF6-80C2B5F	39 981:13	8 502	15 000	6240

DESCRIPTION:	CORE MODULE	P/N:	C2HPCMOD1	S/N:	HPC704539				
DISK STAGE 1 HPCR	1644M21P04	BA372028	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155
DISK STAGE 10	9380M29P04	GATCMT96	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	8321
					CF6-80C2B5F	39 981:13	8 502	15 000	6240
DISK STAGE 2 HPCR	9380M27P08	LA021435	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	8321
					CF6-80C2B5F	39 981:13	8 502	15 000	6240
SEAL, ROTATING-CDP	1347M31P01	NCE9154E	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	8321
					CF6-80C2B5F	39 981:13	8 502	15 000	6240
PC SPOOL STAGE 11 AND 14	1531M21G04	RPMDN624	81 222:13	15 387	CF6-80C2B1F	0:00	14 461	20 000	4216
					CF6-80C2B5F	2 395:13	926	14 000	2951
POOL-STAGE 3 THRU 9 HPC	1856M15G02	VOLD6698	46 860:13	5 944	CF6-80C2B1F	0:00	5 018	20 000	14056
					CF6-80C2B5F	2 395:13	926	20 000	14056

DESCRIPTION:	HPT MODULE	P/N:	C2HPTMOD1	S/N:	HPT704539				
SPACER IMPELLER-HPT	1539M12P02	GFFR1054	46 860:13	11 306	CF6-80C2B1F	1 755:00	343	15 000	3694
					CF6-80C2B5F	45 105:13	10 963	15 000	3694
DISK-STAGE 1 HPTR	1531M84G12	AWN035M7	46 860:13	9 027	CF6-80C2B1F	0:00	8 101	15 000	5603
					CF6-80C2B5F	2 395:13	926	10 720	4004
DISK-STAGE 2 HPTR	9362M43P09	MUNLC444	46 860:13	6 277	CF6-80C2B1F	0:00	5 351	15 000	8723
					CF6-80C2B5F	2 395:13	926	15 000	8723
DIFFUSER-VANE RING	2047M10P01	MUNTH074	46 860:13	11 667	CF6-80C2B1F	0:00	10 741	15 000	3333
					CF6-80C2B5F	2 395:13	926	15 000	3333

DESCRIPTION:	LPT MODULE	P/N:	C2LPTMOD1	S/N:	LPT704539				
DISK-STAGE 2 LPTR	9373M52P07	BA288115	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155
DISK STAGE 1	9373M51P06	BA298592	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155
DISK STAGE 5	9373M55P06	BA319888	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155

Prepared by: _____

Checked by: _____



LIFE LIMITED PARTS STATUS

Print date: 03.02.22 14:00
Page: 2 of 2

ENGINE MODEL: **CF6-80C2B5F** TSN: 85 045:13 TSI: 2 395:13
SERIAL NUMBER: **704539** CSN: 20 461 CSI: 477
INSTALLED ON A/C: VQ-BWW POS: 4 DATE INSTALLED: 25.07.21 DATE REMOVED:

DESCRIPTION	PART NUMBER	SERIAL NUMBER	TSN	CSN	ENGINE MODEL	TOTAL/RAITING		LIFE LIMIT CATEGORY	REMAINING CATEGORY
						Hours	Cycles		
DISK STAGE 3	9373M53P07	BA338415	41 736:13	8 845	CF6-80C2B1F	0:00	7 919	20 000	11016
					CF6-80C2B5F	2 395:13	926	17 400	9584
DISK STAGE 4	9373M54P06	FIAAFOVK	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155
SHAFT-TORQUE CONE	9382M59P08	GWNKT282	41 736:13	8 845	CF6-80C2B1F	1 755:00	343	20 000	11155
					CF6-80C2B5F	39 981:13	8 502	20 000	11155

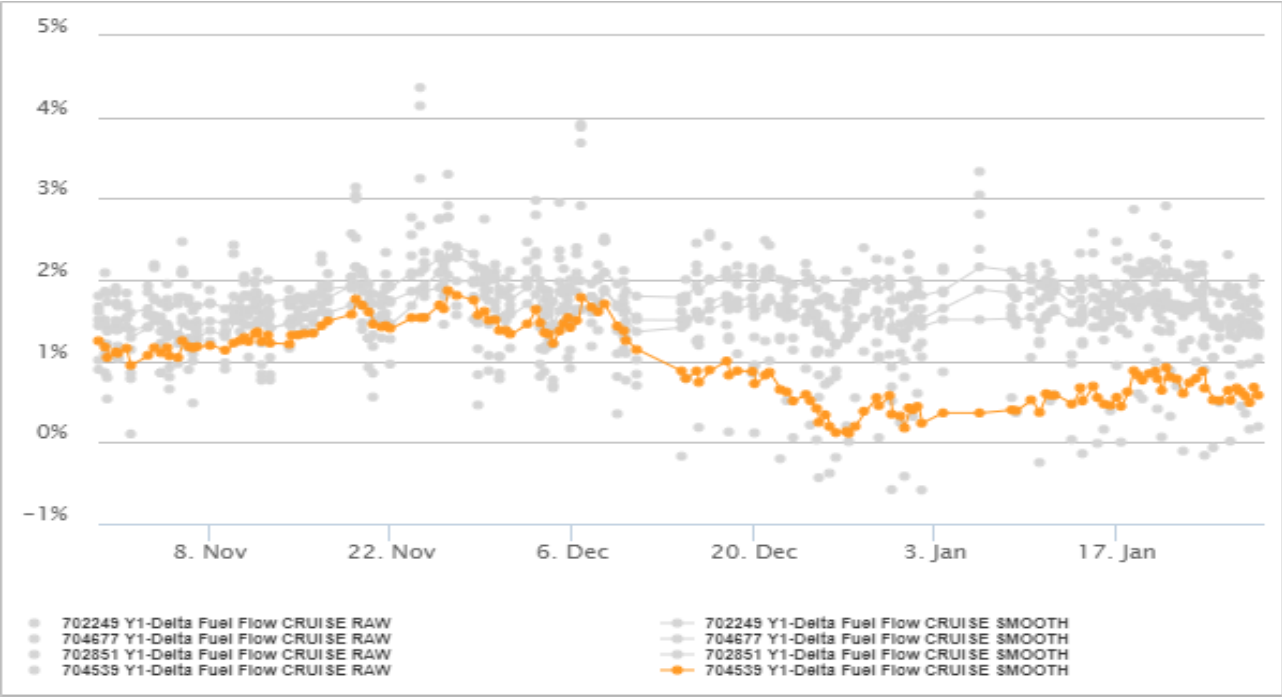
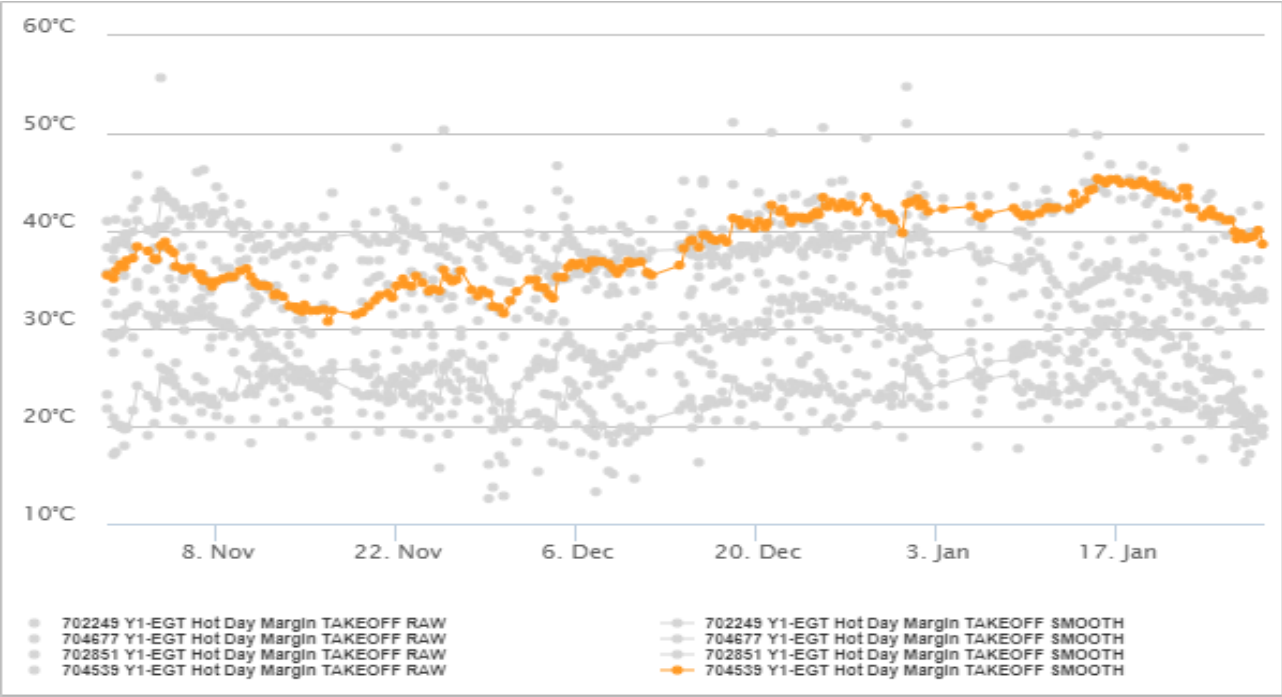
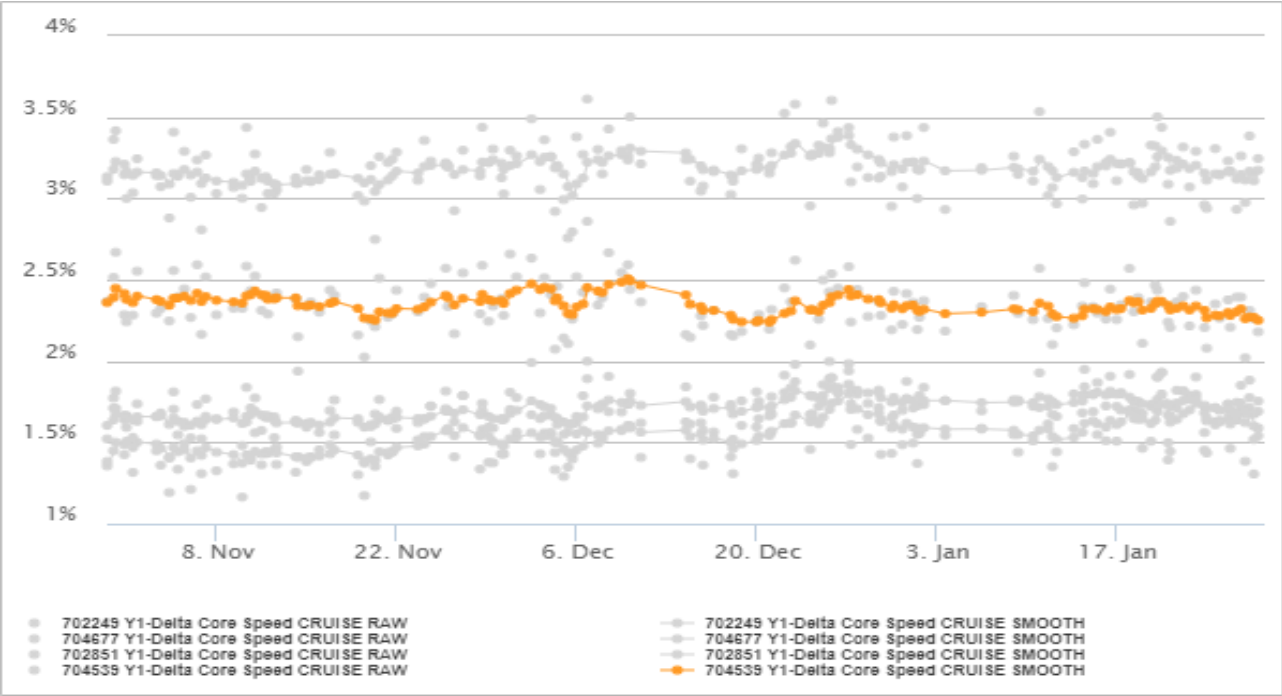
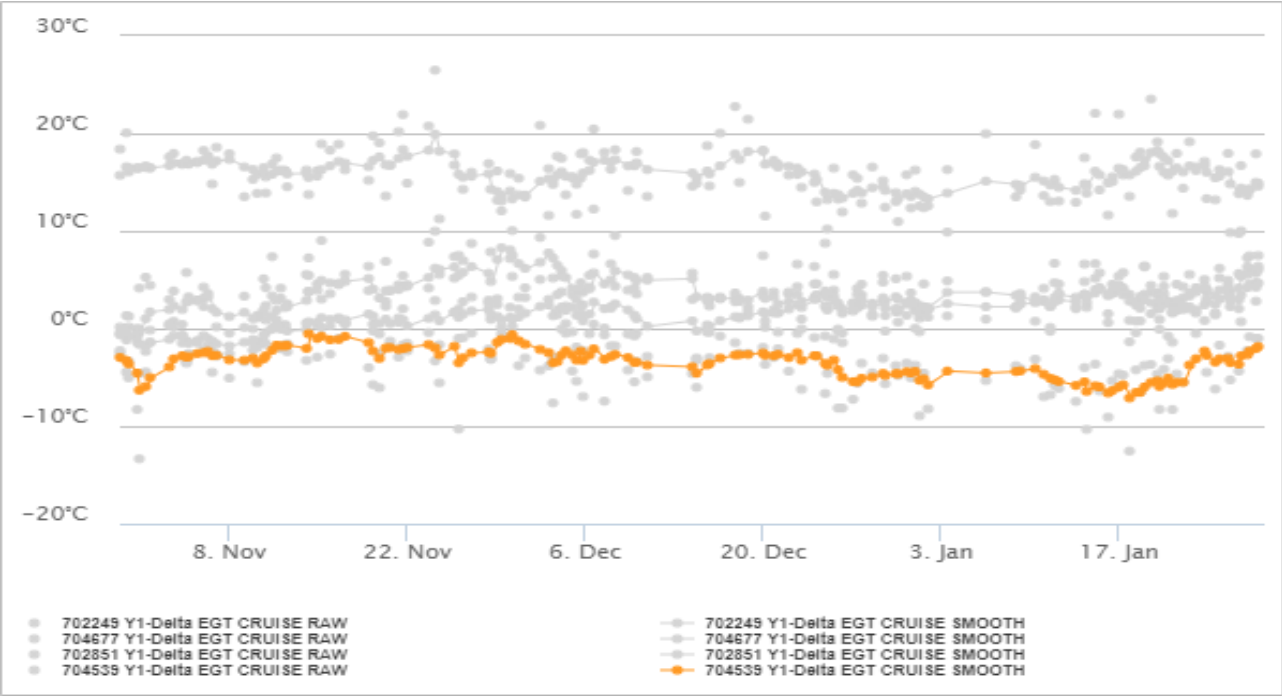
Elena Nedviga
Planning specialist of LTPD

Prepared by: _____

Checked by: _____

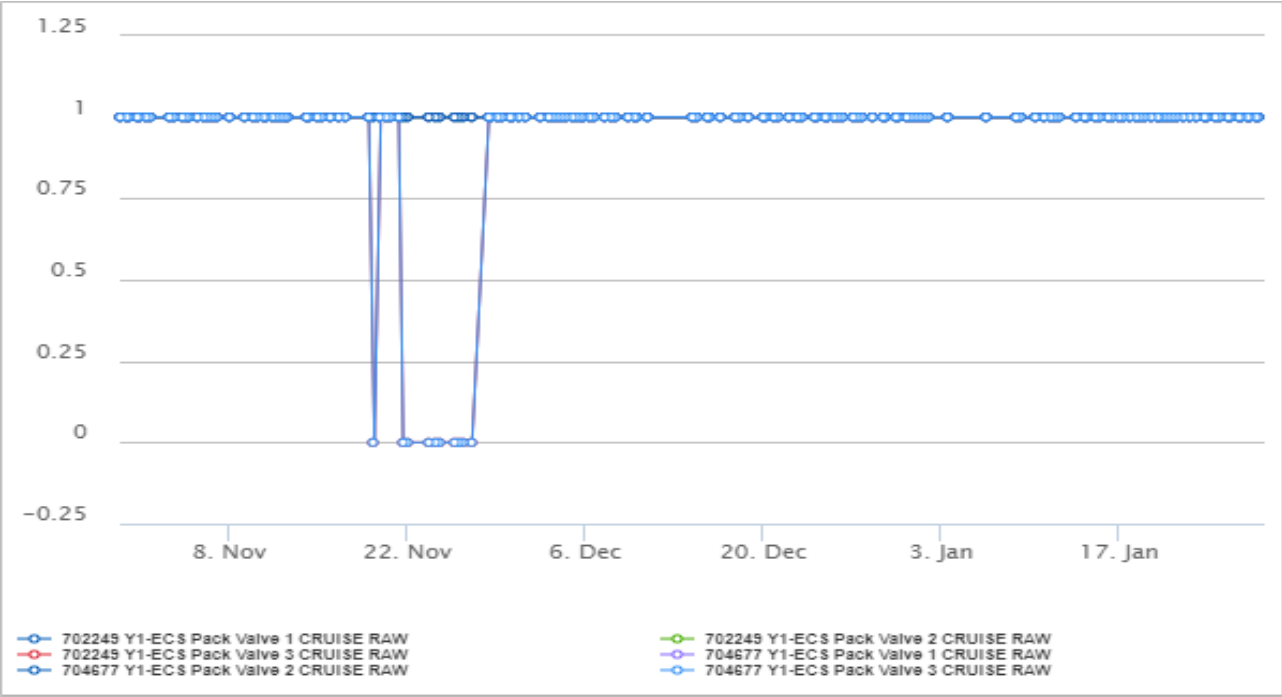
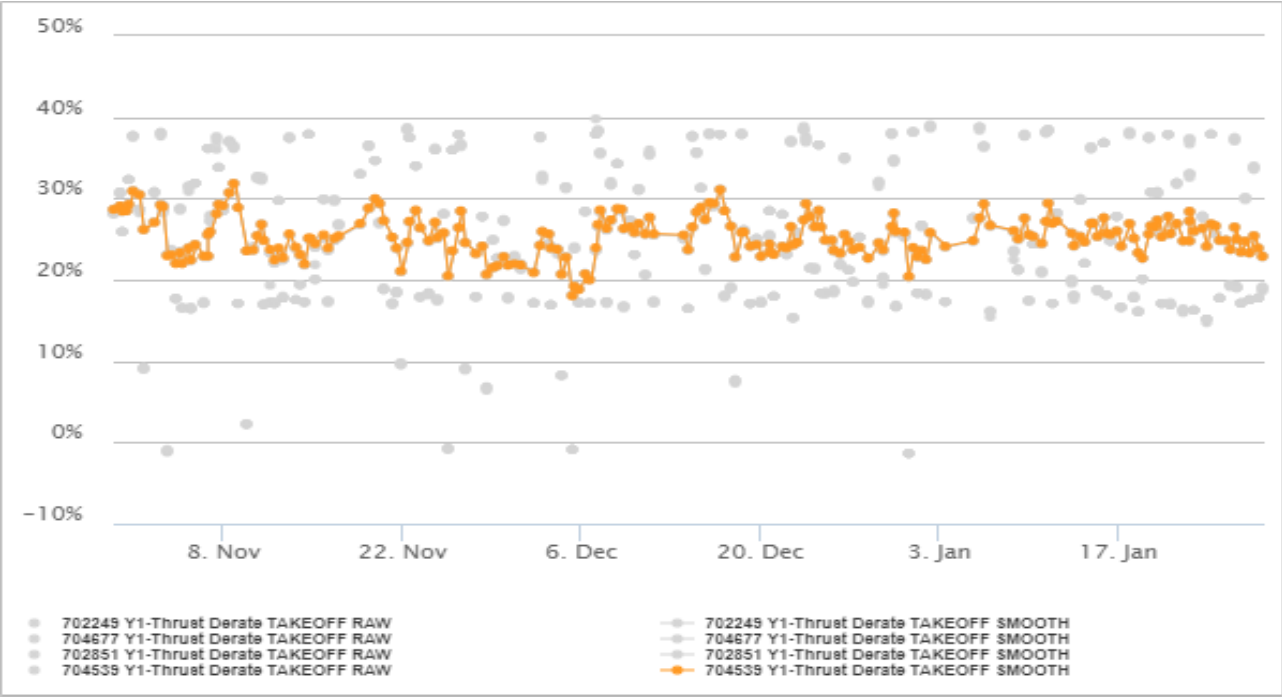
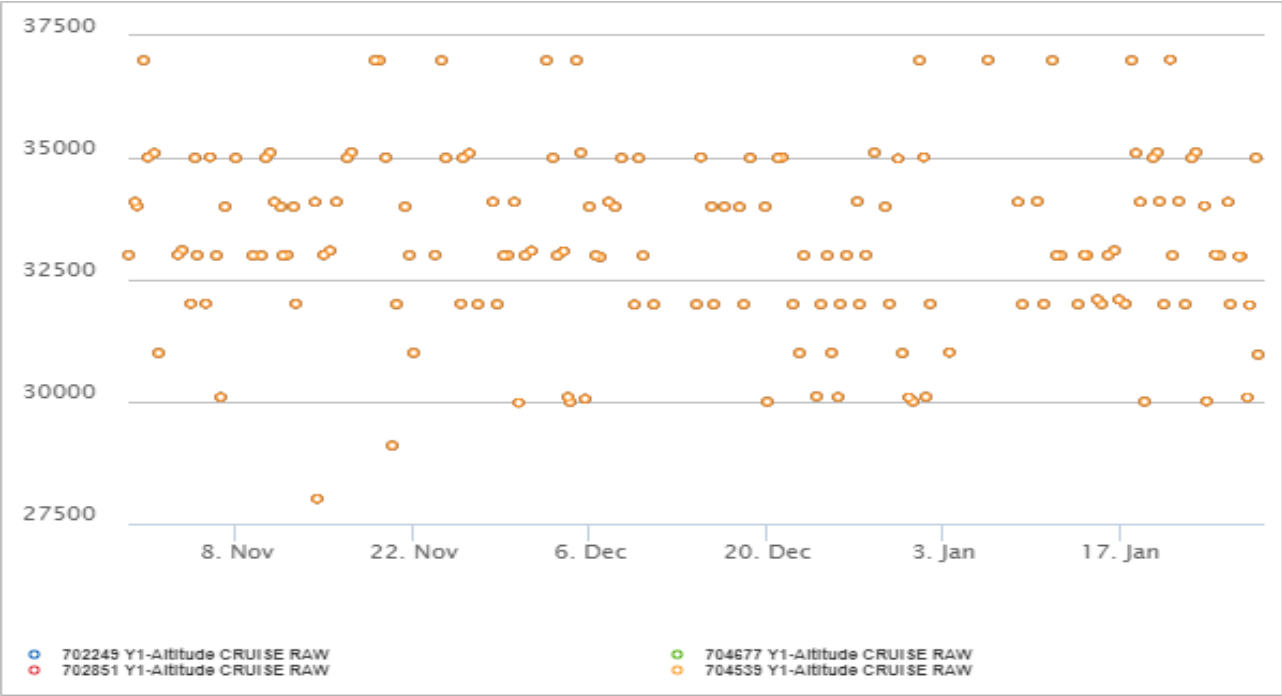
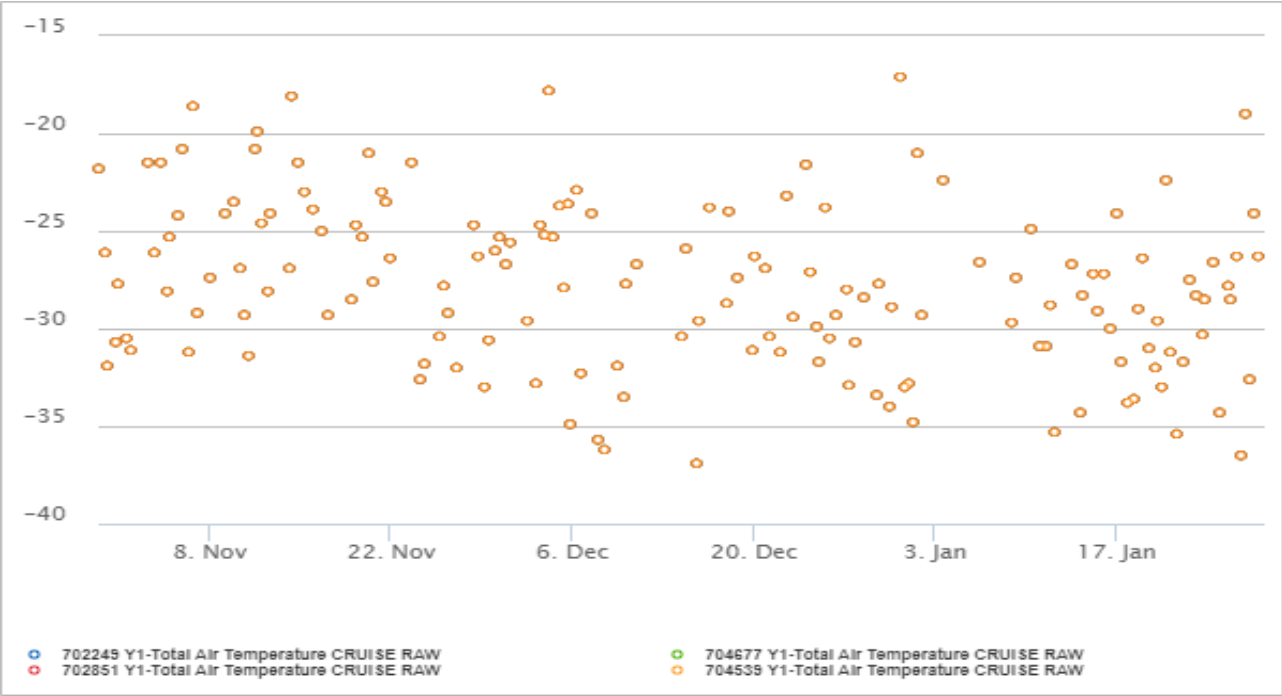
CF6 Performance: VQ-BWW - B747-400 - Air Bridge Cargo

30 Oct 2021 - 28 Jan 2022 (90 days)

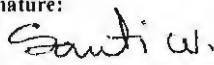


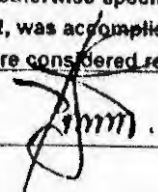
CF6 Performance: VQ-BWW - B747-400 - Air Bridge Cargo

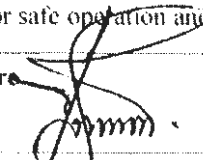
30 Oct 2021 - 28 Jan 2022 (90 days)





1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: DT/FAA/09736/2018	
4. Organization Name and Address: 		THAI AIRWAYS INTERNATIONAL PUBLIC COMPANY LIMITED Donmueang International Airport ,Bangkok 10210 ,Thailand Certificate No. RJHY603H			5. Work Order/Contract/Invoice Number: 23ESM-2300107851	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	ENGINE CF6-80C2B1F	CF6-80C2B1F	1	704539	REPAIRED	
12. Remarks: The work specified in block status/work has been inspected, repaired, modified and tested in accordance with General Electric CF6-80C2 GEK 92451, Engine manual revision 88, date 01 Dec 2018. Detailed of work performed are on file under work package of Sale order 130042988. TSN : 78,236 Hours, CSN : 19,192 Cycles Engine was preserved for long term storage(1 year) on 27 Dec 2018. Relevant information on Airworthiness Directives, service bulletins and life-limited parts is available in the engine shop visit rep Outstanding items requiring Operator action are listed in Carry forward items report as attached.						
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. [X] 14 CFR 43.9 Return to Service Other regulation specified in block 12 Certifies that unless otherwise specified in block 12, the work indentified 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/Certification No.: RJHY603H	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed): Santi Waeowong		14e. Date (dd/mm/yyyy): 28DEC2018	
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority difference 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 as installation certification issued in accordance with the national regulations by user/installer before the aircraft may be flown.						

1. Approving Competent Authority/Country EASA		2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1			3. Form Tracking Number DT/EASA/03480/2018	
4. Organisation Name and Address :  THAI THAI AIRWAYS INTERNATIONAL PUBLIC COMPANY LIMITED Donmuang Airport, Bangkok, Thailand				5. Work Order/Contract/Invoice 23ESM-2300108641		
6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/Work	
1	ENGINE CF6-80C2B1F	CF6-80C2B1F	1	704539	INSPECTED/TESTED	
12. Remarks The work specified in block status/work has been inspected and tested in accordance with General Electric CF6-80C2 GEK 92451, Engine manual revision 88, date 01 Dec 2018, chapter 72-00-00 testing. Detailed of work performed are on file under work package of Sale order 130043165 TSN : 78,236 Hours, CSN : 19,192 Cycles Engine was preserved for long term storage(1 year) on 27 Dec 2018 Outstanding items requiring Operator action are listed in Carry forward items report as attached.						
13a. Certifies that 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. ☒ Part-145.A.50 Release 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 Part-145 and in respect to that work the items are considered ready for release to service.			
13b. Authorised Signature		13c. Approval/Authorisation Number		14b. Authorised Signature 		14c. Certificate/Approval Ref.No. EASA.145.0147
13d. Name		13e. Date (dd/mm/yyyy)		14d. Name Bundit Boonaium		14e. Date (dd/mm/yyyy) 28DEC2018
USER/INSTALLER RESPONSIBILITIES This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority 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.						

1. Country THAILAND		 AUTHORIZED RELEASE CERTIFICATE- AIRWORTHINESS APPROVAL TAG			3. Form Tracking No. DT/CAAT/28794/2018
4. Organization Thai Airways International Public Company Limited Bangkok International Airport, Bangkok, Thailand					5. Work Order/Contract/ Invoice 23ESM-2300108641
6. Item	7. Description	8. Part No.	9. Quantity	10. Serial/Batch No.	11. Status/Work
1	ENGINE CF6-80C2B1F	CF6-80C2B1F	1	704539	INSPECTED/TESTED
12. Remarks The work specified in block status/work has been inspected and tested in accordance with General Electric CF6-80C2 GEK 92451, Engine manual revision 88, date 01 Dec 2018, chapter 72-00-00 testing. Detailed of work performed are on file under work package of Sale order 130043165 TSN : 78,236 Hours, CSN : 19,192 Cycles Engine was preserved for long term storage(1 year) on 27 Dec 2018 Outstanding items requiring Operator action are listed in Carry forward items report as attached.					
13. New Parts: Certifies that part(s) identified above except as otherwise specified in block 12 was (were) manufacturer/or inspect in accordance with the airworthiness requirements of the stated country and/or in the case of parts to be exported with the approved design data and with the notified special requirements of the importing country.			14. Used Parts: Certifies that part(s) identified above except as otherwise specified in block 12 was carried out in the accordance with the airworthiness requirements of the stated country and the notified special requirements of the importing country and in respect to that work, the part(s) is(are) in the condition for safe operation and considered ready for release to service.		
15. Authorized Signature		17. Approval/Authorization No.		19. Authorized Signature	21. Approval/Authorization No.
					13/2525
16. Name (typed or printed)		18. Date		20. Name (typed or printed) Bundit Boonatum	22. Date 28DEC2018

CAAT Form one

*Cross-check eligibility for more details with parts catalog

USER/INSTALLER RESPONSIBILITIES

- Note:
1. It is important to understand that existence to the document alone does not automatically constitute authority to install the part/component/assembly.
 2. Where the user/installer works in accordance with the national requirements of an Airworthiness Authority different from the Civil Aviation Authority of Thailand, it is essential that user/Installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Civil Aviation Authority of Thailand.
 3. Statements in block 13 and 14 do not constitute installation certification. In all cases the aircraft maintenance record must contain an installation certification issued in accordance with the national requirements by the user/installer before the aircraft can be flown.



Thai Airways International Public Co.,Ltd

LLP STATUS (DISK SHEET)

Owner Trust Benefit of Thai Airways International Public Company Limited

ENGINE CF6-80C2B1F	704539	Limiting part information	
		Limiting part	HPT Diff Vane Ring
Issued Date/Engine at Date	December 27, 2018	Cycle Remaining	4,602
Date of installation	-	Engine Preservation	27 DEC 2018 - 26 DEC 2019
Current TSN of engine	78,236	Last Shop Visit information	
Current CSN of engine	19,192		
Time since last S/V	-	Last Repair Agency	THAI Technical Department
Cycles since last S/V	-	Last S/V Workscope	Performance



Part Name	Part Number	Serial Number	Total Hours	Total Cycles	Cycle Limit	Cyc. Remaining
Fan Rotor						
Fan Disk Stg 1	1703M77P02	GWNKT027	34,927	7,576	20,000	12,424
Spool-Fan Rotor Stg 2-5	1856M71P06	VOL96111	34,927	7,576	20,000	9,898
Fan Fwd Shaft	1855M57G01	GWNGJ888	34,927	7,576	20,000	12,424
Fan Mid Shaft	1862M48P01	RPMFA9N1	34,927	7,576	20,000	12,424
HPC Rotor						
HPC Stg 1 Disk	1644M21P04	BA372028	34,927	7,576	20,000	12,424
HPC Stg 2 Disk	9380M27P08	LA021435	34,927	7,576	20,000	9,898
HPC Stg 3-9 Spool	1856M15G02	VOLD6698	38,051	4,675	20,000	15,325
HPC DISK STG 10	9380M29P04	GATCMT96	34,927	7,576	20,000	9,898
HPC Stg 11-14 Spool/Shaft	1531M21G04	RPMDN624	74,413	14,118	20,000	5,882
HPC CDP Seal	1347M31P01	NCE9154E	34,927	7,576	20,000	9,898
HPT Rotor						
HPT Stg 1 Disk	1531M84G12	GWN035M7	52,168	7,758	15,000	7,242
HPT Stg 2 Disk	9362M43P09	MUNLC444	8,981	5,008	15,000	9,992
HPT Spacer Impeller	1539M12P02	GFFR1054	38,838	10,037	15,000	4,963
HPT Diff Vane Ring	2047M10P01	MUNTH074	12,526	10,398	15,000	4,602
LPT Rotor						
LPT Stg 1 Disk	9373M51P06	BA298592	34,927	7,576	20,000	12,424
LPT Stg 2 Disk	9373M52P07	BA288115	34,927	7,576	20,000	12,424
LPT Stg 3 Disk	9373M53P07	BA338415	34,927	7,576	20,000	12,424
LPT Stg 4 Disk	9373M54P06	FIAAFOVK	34,927	7,576	20,000	12,424
LPT Stg 5 Disk	9373M55P06	BA319888	34,927	7,576	20,000	12,424
LPT Shaft	9382M59P08	GWNKT282	34,927	7,576	20,000	12,424

Non Incident/Accident Statement

Engine Type: CF6-80C2
Engine S/N: 704539
Engine TSN: 78,236:25
Engine CSN: 19,192

This is to certify that subject engine was operated from 19.Jun.1997 with TSN/CSN: 0/0 by Asiana Airlines and was removed on 15.Mar.2017 and that it was:

1. Never involved in a fire, crash, incident or accident and not subjected to extreme stress or immersed in salt water or corrosive fluid.
2. Not obtained from military or non-certificated sources.
3. Unserviceable condition due to HPC blade damage outside of AMM limits



Name: Byunghee Ahn

Title: Manager, Quality Assurance

Date: 12.Sep.2017

CHROMALLOY(CMS)

 THAI ENGINE OVERHAUL DEPT.	RECORD SHEET	CODE : EC801000 PAGE : 1 of 7 DATE : 25 AUG 2017		
Prepared by Samret I.	Subject Engine After Testing Inspection	Engine Type : CF6-80C2 ESN : 704539		
Order : 3900108641		Date : 38 DEC 2018		
Reason of revised: 1) Delete maintenance requirement for the engine type not applicable to THAI fleet.				
Maintenance Tasks	Maintenance Record		Perf. by	Insp.
	Finding	Correction		
1. Borescope Inspection				
(a) Inspection of HPC blades stage1, 7, 12 and 14 through borescope ports. (Ref. 72-00-31 Inspection)				
Stage 1 (B1-0)	NO DEFECT	NONE		
Stage 7 (B1-6)	NO DEFECT	NONE		
Stage 12 (B1-11)	NO DEFECT	NONE		
Stage 14 (B1-13)	NO DEFECT	NONE		
(b) Inspection of HPT blades. (Ref. 72-00-03 Inspection)				
Stage 1 (B3-1)	NO DEFECT	NONE		
Remaining notches:	NONE	XXXXXXXXXX XXXXXXXXXX		
Stage 2 (B3-2)	NO DEFECT	NONE		
Remaining notches:	NONE	XXXXXXXXXX XXXXXXXXXX		

THAI
ENGINE OVERHAUL DEPT

CODE : EC801000

PAGE : 2 of 7

DATE : 25 AUG 2017

Engine Type : CF6-80C2

ESN: 704539

Prepared by
Samret I.

Subject
Engine After Testing Inspection

25 DEC 2018



The Airways International Public Co., Ltd.

AIRWORTHINESS DIRECTIVE STATUS

ENGINE TYPE : CF6-80C2B1F ENGINE TSN : 78,236 HOURS OWNER : CMS
ENGINE SERIAL NO. : 704539 ENGINE CSN : 19,192 CYCLES

LAST SHOP VISIT ACCOMPLISHMENT DATE : Dec 27, 2018
AT ENGINE TSN : 78,236 HOURS ; CSN : 19,192 CYCLES
ISSUED DATE : Dec 27, 2018

FAA AD	SUBJECT	EFFECTIVE DATE	COMPLIANCE	MEAN OF COMPLIANCE	ONCE / RECUR / NONE	NEXT DUE	STATUS/REMARKS
88-24-14							Superseded by FAA AD 89-03-52
89-03-52							Superseded by FAA AD 90-26-01
90-26-01							Superseded by FAA AD 2014-21-01
91-05-21	To prevent high pressure turbine (HPT) failure and possible aircraft damage	Mar 27, 1991	According to AD requirement	SB 72-473 SB 72-474	None	Terminated	Not applicable per ASIANA AIRLINES Engine AD Status date 05sep2017
91-11-05	Ultrasonic inspection of HPCR stg 11-14 spool shaft	July 5, 1991	Next shop visit but no later than 5,000 CIS after AD eff. date	SB 72-314	None	Terminated	Not applicable by P/N P/N 1703M49G03 S/N GWN02J3R installed
91-15-25	Inspection HPCR stg 11-14 spool shaft	Sep 6, 1991	Within 500 CIS after AD eff. date or prior to 8,000 CSN whichever occurs later	SB 72-130	None	Terminated	Not applicable by P/N P/N 1703M49G03 S/N GWN02J3R installed
91-20-01							Superseded by FAA AD 95-03-01
91-20-02							Superseded by FAA AD 2014-21-01
93-14-18	Inspection of HPTR thermal shield P/N 9315M41P20 S/N as listed in the applicable SB that are ref. In this AD	Oct 4, 1993	During shop visit or before Dec 12, 1995 whichever occur first	SB 72-565	None	Terminated	Not applicable by S/N P/N 9315M41P20 S/N BTADU007 installed

Prepared by: Somjet T.

Approved by:

(Somjet T.)

Print as date Dec 27, 2018



Thai Airways International Public Co., Ltd.

AIRWORTHINESS DIRECTIVE STATUS

ENGINE TYPE : CF6-80C2B1F ENGINE TSN : 78,236 HOURS OWNER : CMS

ENGINE SERIAL NO. : 704539 ENGINE CSN : 19,192 CYCLES

LAST SHOP VISIT ACCOMPLISHMENT DATE : Dec 27, 2018

AT ENGINE TSN : 78,236 HOURS ; CSN : 19,192 CYCLES

ISSUED DATE : Dec 27, 2018

FAA AD	SUBJECT	EFFECTIVE DATE	COMPLIANCE	MEAN OF COMPLIANCE	ONCE / RECUR / NONE	NEXT DUE	STATUS/REMARKS
94-06-03	Eddy current inspection of HPTR stg. 1 disk/shaft rim bolt holes, HPTR disk/shaft P/N 9392M23G10/G12/G21 S/N as listed in SB.	Apr 29, 1994	During shop visit but before Aug 1994	SB 72-614	None	Terminated	Not applicable by P/N P/N 1531M84G12 S/N GWN035M7 installed
94-20-06	Installation of Flame Arrestor Plug Support (FAPS)	Dec 27, 1994	Prior to Jan 23, 1995	SB 72-648	None	Terminated	Not applicable per ASIANA AIRLINES Engine AD Status date 05sep2017
95-03-01							Superseded by FAA AD 95-23-03
95-18-14							Superseded by FAA AD 2002-25-08
95-23-03							Superseded by FAA AD 99-24-15
96-09-01							Superseded by FAA AD 96-16-07
96-16-07	Remove & Replace RH Engine Mount Link, Link Assy P/N 9348M84G02, engine S/N as per SB.	Aug 28, 1996	Prior to further flight, if the link S/N matches those listed in SB 72-835 R1	SB 72-835 R1	None	Terminated	Not applicable per ASIANA AIRLINES Engine AD Status date 05sep2017
97-22-14	Remove & Replace HPCR 3-9 Spool, P/N 1333M66G01, S/N as listed in SB.	Nov 17, 1997	Within 30 days after AD eff. date	SB 72-A906	None	Terminated	Not applicable by P/N P/N 1856M15G02 SN VOLD6698 installed

Prepared by: Somjet I.

Approved by:

(Somiyos J.)

Print as date Dec27,2018



Thai Airways International Public Co., Ltd.

AIRWORTHINESS DIRECTIVE STATUS

ENGINE TYPE : CF6-80C2B1F ENGINE TSN : 78,236 HOURS OWNER : CMS

ENGINE SERIAL NO. : 704539 ENGINE CSN : 19,192 CYCLES

LAST SHOP VISIT ACCOMPLISHMENT DATE : Dec 27, 2018

AT ENGINE TSN : 78,236 HOURS ; CSN : 19,192 CYCLES

ISSUED DATE : Dec 27, 2018

FAA AD	SUBJECT	EFFECTIVE DATE	COMPLIANCE	MEAN OF COMPLIANCE	ONCE / RECUR / NONE	NEXT DUE	STATUS/REMARKS
98-22-06	Perform Ultrasonic immersion inspection for cracks of effected fan disks, S/N as in SB.	Nov 23, 1998	Prior to further flight	SB 72-A478R4	None	Terminated	Not applicable by S/N P/N 1703M77P02 S/N QWNKT027 installed
99-01-01	CF6-80C2 : AGB - Idler Adapter Inspection	Jan 21, 1999	Within 10 days after AD eff. date	SB 73-A283	None	Terminated	Not applicable by P/N P/N 9395M78G10 S/N FIAAGR5H installed
99-08-13							Superseded by FAA AD 2000-08-12
99-24-15							Superseded by FAA AD 2002-25-08
2000-03-04	Fan Mid Shaft Assembly-Mid Shaft life limit extension	Apr 10, 2000	Remove from service according to AD requirement	SB 72-750 SB 72-958	None	Terminated	Not applicable by P/N P/N 1862M41P01 installed
2000-04-14							Superseded by FAA AD 2013-08-20
2000-08-12							Superseded by FAA AD 2002-07-12

Prepared by : Somjet I

Approved by :

(Somyos J.)

Print as date Dec27,2018



Thai Airways International Public Co., Ltd.

AIRWORTHINESS DIRECTIVE STATUS

ENGINE TYPE : CF6-80C2B1F ENGINE TSN : 78,236 HOURS OWNER : CMS
ENGINE SERIAL NO. : 704539 ENGINE CSN : 19,192 CYCLES

LAST SHOP VISIT ACCOMPLISHMENT DATE : Dec 27, 2018
AT ENGINE TSN : 78,236 HOURS ; CSN : 19,192 CYCLES
ISSUED DATE : Dec 27, 2018

FAA AD	SUBJECT	EFFECTIVE DATE	COMPLIANCE	MEAN OF COMPLIANCE	ONCE / RECUR / NONE	NEXT DUE	STATUS/REMARKS
2000-16-12							Superseded by FAA AD 2002-25-08
2001-10-07							Superseded by FAA AD 2004-04-07
2002-07-12							Superseded by FAA AD 2009-04-10
2002-22-12	Visual inspection of all high-pressure and medium-pressure hoses to prevent failure of a hose when exposed to fire	Dec 13, 2002	Within 48 months after AD eff. date	SB 73-2	None	Terminated	Not applicable per ASIANA AIRLINES Engine AD Status date 05sep2017
2002-25-08	Inspection of HPC stg. 3-9 spool	Jan 23, 2003	According to AD requirement	SB 72-A0812 SB 72-A0848 SB 72-A0934	None None None	Terminated Terminated Terminated	Not applicable by P/N P/N 1856M15G02 SN VOLD6689 installed
2003-02-07	CF6-80C2 LPT stator shroud stg. 2 , 3 , 4 replacement	Mar 03, 2003	At the next piece-part exposure, but no later than Jul 31, 2010	SB 72-1006	None	Terminated	Not applicable by P/N P/N 2083M12G01 & P/N 2083M13G01 & P/N 2083M14G01 installed
2004-04-07							Superseded by FAA AD 2006-16-06

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Approved by :

(Somyos J.)

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2004-22-07	HPT stg. 2 nozzle guide vanes inspection	Dec 01, 2004	According to AD requirement	SB 72-0952 R6	None	Terminated	Not applicable by P/N P/N 2080M12G01 & P/N 2080M62G01 & P/N 2080M12G02 installed
2005-17-05	Inspection of the spool shaft for the location of the circumferential cut repair	Sep 27, 2005	At the next piece part exposure	SB 72-1052 R2	None	Terminated	Not applicable per FAA 8130-3 track no. 19950722
2006-16-06	Stg. 1 HPTR disk inspection, re-identification and rework dovetail slot bottom corner radius	Sep 05, 2006	According to AD requirement	SB 72-1217	None	Terminated	Not applicable by SN P/N 1531M84G12 SN GWN035M7 installed
2007-05-14	Welded cast titanium fwd eng mount platform and yoke removal	Apr 09, 2007	According to AD requirement	Detail in AD document	None	Terminated	Not applicable by SN&P/N Platform P/N1806M80G01 SN MMTE0721 Yoke P/N 1806M79G01 SN MMTE1159 installed
2007-11-20	Replacement of fuel shroud retaining snap ring	Jul 10, 2007	At the next engine shop visit after the AD eff. date	SB 73-0337 R3	Once	Terminated	AD accomplished 07Oct2009 per ASIANA AIRLINES Engine AD Status date 05sep2017
2007-12-07							Superseded by FAA AD 2012-04-05

Prepared by: Somjai I

Approved by:

(Somyos J.)

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FAA AD	SUBJECT	EFFECTIVE DATE	COMPLIANCE	MEAN OF COMPLIANCE	ONCE / RECUR / NONE	NEXT DUE	STATUS/REMARKS
2007-24-07	Inspection - Stg 1 fan disk	Jan 02, 2008	According to AD requirement	SB 72-1121 R0	None	Terminated	Not applicable by P/N&SN P/N 1703M77P02 SN GWNKT027 installed
2008-21-11	LPT-Case rework, addition of deflectors	Nov 28, 2008	At next piece parts exposure of LPT Case but not to exceed 8 years after the AD effective date	SB 72-1171	Once	Terminated	AD accomplished 19Dec2018 PN2083M94G07 S/N VOL80689 installed
2009-04-10	Stg 1 Fan Rotor Disk inspection	Mar 30, 2009	Inspect at each piece-part opportunity and CSN is over 100 cycles According to AD requirement	EM 72-21-03	Recur	Next part exposure	Not complied - Part not exposed
	Fan Forward Shaft inspection			EM 72-21-05	Recur	Next part exposure	Not complied - Part not exposed
	Fan Mid Shaft inspection			EM 72-24-01	Recur	Next part exposure	Not complied - Part not exposed
	HPCR stg 1 Disk inspection			EM 72-31-04	Recur	Next part exposure	AD accomplished 19Dec2018
	HPCR stg 2 Disk inspection			EM 72-31-05	Recur	Next part exposure	AD accomplished 19Dec2018
	HPCR stg 3-9 Spool inspection			EM 72-31-06	Recur	Next part exposure	AD accomplished 30Aug2018 Per FAA 8130-3 track no 539001
	HPCR stg 10 Disk inspection			EM 72-31-07	Recur	Next part exposure	AD accomplished 19Dec2018
	HPCR stg 11-14 Spool/Shaft inspection			EM 72-31-08	Recur	Next part exposure	AD accomplished 08Oct2018 Per FAA 8130-3 track no. 19950722
	No. 4 Bearing Rotating (CDP) Air Seal inspection			EM 72-31-10	Recur	Next part exposure	AD accomplished 19Dec2018
	HPCR stg 10-14 Spool/Shaft inspection			EM 72-31-22	None	Terminated	Not applicable by configuration

Prepared by : Somjet L

Approved by :

(Somyas J)

Print as date Dec27,2018



Thai Airways International Public Co., Ltd.

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LAST SHOP VISIT ACCOMPLISHMENT DATE : Dec 27, 2018

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ISSUED DATE : Dec 27, 2018

FAA AD	SUBJECT	EFFECTIVE DATE	COMPLIANCE	MEAN OF COMPLIANCE	ONCE / RECUR / NONE	NEXT DUE	STATUS/REMARKS
	HPTR stg.1 Disk Shaft inspection			EM 72-53-02	Recur	Next part exposure	AD accomplished 04Jan2018 Per FAA 8130-3 track no.19507556
	HPTR stg 2 Disk inspection			EM 72-53-06	Recur	Next part exposure	AD accomplished 07Dec2018 Per FAA 8130-3 track no. DT/FAA/09006/2018
	LPTR stg 1-5 Disks inspection			EM 72-57-02	Recur	Next part exposure	Not complied - Part not exposed
	LPTR Shaft inspection			EM 72-57-03	Recur	Next part exposure	Not complied - Part not exposed
2009-05-02							Superseded by FAA AD 2014-21-01
2009-07-03	HPCR stage 10-14 spool shaft – stage 14 disk web eddy current inspection	Apr 30, 2009	Next engine shop visit where the separation of a major engine flange will occur after AD eff. date	SB 72-A1122	Once	Terminated	Not applicable by configuration P/N 1531M21G04 S/N RPMDN624 installed
2012-03-12	No. 3 bearing packing incorrect size inspection	Apr 05, 2012	Insp. No. 3 bearing packing	SB 72-1405R1	Once	Terminated	Complied on 21Nov 2018
2012-04-05	ECU removal	Mar 30, 2012	Remove from service According to AD requirement	None	None	Terminated	Not applicable by P/N P/N 1519M89P31 installed
2013-08-20	Fuel tubes replacement	May 31, 2013	Next time the fuel tubes are disconnected or the next engine shop visit after AD eff. Date whichever occurs first, unless already	SB 73-A0401 SB 73-A0242	None	Terminated Terminated	Factory complied per ASIANA AIRLINES Engine AD Status date 05sep2017

Prepared by : Somjet I

Approved by :

(Somys J.)

Print as date Dec27,2018



Thai Airways International Public Co., Ltd.

AIRWORTHINESS DIRECTIVE STATUS

ENGINE TYPE : CF8-80C2B1F ENGINE TSN : 78,236 HOURS OWNER : CMS
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LAST SHOP VISIT ACCOMPLISHMENT DATE : Dec 27, 2018
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FAA AD	SUBJECT	EFFECTIVE DATE	COMPLIANCE	MEAN OF COMPLIANCE	ONCE / RECUR / NONE	NEXT DUE	STATUS/REMARKS
			done	SB 73-A0224 SB 73 -A0231		Terminated Terminated	
2014-21-01	Prevent failure of the fuel manifold	Nov 28, 2014	According to AD requirement	SB 73- 0371 SB 73 - 0422	Once	Terminated	AD accomplished 19Dec2018 P/N 2636M07G01& P/N 2636M06G01 installed
2016-08-10	Rework of accessory heat shield assembly for TBC protection	June 01, 2016	Next time shop visit after affective date	SB 72-1520	Once	Terminated	AD accomplished 15Dec2018 P/N 2628M54G13 installed
2018-15-04	Stage 1 & 2 HPTR disk Ultrasonic Inspection	Oct 02, 2018	According to AD requirement	SB 72-1562R3	Once	Terminated	AD accomplished 04Jan2018 Per FAA 8130-3 track no. 19507556 P/N 1531M84G12 S/N GWN035M7 installed

Prepared by : Somjet

Approved by :


(Somyos J.)

Print as date Dec27,2018

SERVICE BULLETIN STATUS LIST

AIRCRAFT ENGINE OVERHAUL
DEPARTMENT

ENGINE TYPE: CF6-80C2B1F ENGINE TSN: 78,236

ISSUE DATE: 27 DEC 2018

ENGINE SERIAL NO: 704539 ENGINE CSN: 19,192

SB NO.	DESCRIPTION	ACCOMPLISHMENT DATE
SB CF6-72-0933	SB CF6-72-933 CRF - OIL-IN MANIFOLD	2000.09.13
SB CF6-72-0936	SB CF6-72-936 FAN ROTOR-INSP.OF NEWER MA	2000.09.13
SB CF6-72-0944	SB CF6-72-944 ENG'-COMP' STATOR ASS'Y-S5	2000.06.16
SB CF6-72-0956	SB CF6-72-956AGB HEAT SHIELD-AUXILIARY H	2000.09.13
SB CF6-72-0978	SB CF6-72-0978 HPT S2 NOZZLES - NEW S2 N	2003.08.11
SB CF6-72-0979	SB 72-0979 LPT - I/S SEAL RETAINERS - IM	2006.10.06
SB CF6-72-0982	SB CF6-72-0982 HPTR - R80 S2 BLD - RETIR	2003.09.07
SB CF6-72-1000	SB CF6-72-1000 TRF-SUMP HOUSING-WELD INS	2006.10.06
SB CF6-72-1006	AD 2003-02-07(SB72-1006) LPT SHROUD REPL	2006.10.06
SB CF6-72-1034	SB CF6-72-1034 CTRL ALTERNATOR SPACER &	2006.10.06
SB CF6-72-1046	CF6-72-1046 HPT LEAF SEAL ASSEMBLY-IMPRO	2006.10.06
SB CF6-72-1060	CF6-72-1060 REDESIGN STAGE 3-5 HPC BLADE	2003.09.07
SB CF6-72-1074	SB CF6-72-1074 VSV BUSHING AND WASHERS	2003.09.07

SB NO.	DESCRIPTION	ACCOMPLISHMENT DATE
SB CF6-72-1081	SB CF6-72-1081 HPC-NEW STAGE 5 LEVER ARM	2003.09.07
SB CF6-72-1083	SB CF6-72-1083 COMPRESSOR STATOR CASE-RE	2003.09.07
SB CF6-72-1092	SM CF6-72-1092 VBV SYS-BOLT HEAD ORIENTA	2003.11.11
SB CF6-72-1107	SB72-1107 CRF-HIGH TEMP.AFLAS O-RING SEA	2006.10.06
SB CF6-72-1108	SB 72-1108 FAN MID SHAFT CORROSION PROTE	2009.09.28
SB CF6-72-1116	SB CF6-72-1116 FWD MOUNT-FAIL SAFE SHOUL	2006.10.06
SB CF6-72-1118	SB CF6-72-1118 HPC S11 SLOT INSP'& CU-NI	2006.10.06
SB CF6-72-1154	SB 72-1154 HPT STG.1 NOZZLE SUPPORT INSP	2006.10.06
SB CF6-72-1171	LOW PRESSURE TURBINE STATOR ASSEMBLY	2018.02.16
SB CF6-72-1186	ENGINE - IGB (72-61-00) - HORIZONTAL GEA	2014.04.28
SB CF6-72-1195	ENGINE - HPT ROTOR ASSEMBLY (72-53-00)	2006.10.06
SB CF6-72-1205	NEW/REWORKED HEAT TREATED HIGH PRESSURE	2017.03.17
SB CF6-72-1222	LPT STATOR ASSEMBLY (72-56-00) - STAGE 1	2009.09.25
SB CF6-72-1223	FAN MODULE-INTRODUCTION OF IMPROVED FORW	2014.04.28
SB CF6-72-1229	ENGINE ASSEMBLY (72-00-00) -INTRODUCTION	2009.10.13

SB NO.	DESCRIPTION	ACCOMPLISHMENT DATE
SB CF6-72-1230	FAN FRAME AND CASE ASSEMBLY (72-23-00) -	2006.10.06
SB CF6-72-1238	HPC (72-32-00) - INNER VSV BUSHING UPGRA	2009.09.11
SB CF6-72-1265	COMPRESSOR REAR FAME ASSEMBLY (72-34-00	2009.09.28
SB CF6-72-1269	HPT ROTOR BLADES (72-53-01) - INTRODUCTION	2009.09.29
SB CF6-72-1271	HPT ROTOR BLADES (72-53-01) -INTRODUCTION	2009.09.29
SB CF6-72-1278	ENGINE - COMPRESSOR REAR FRAME ASSEMBLY	2014.04.28
SB CF6-72-1368	INTRODUCTION OF NEW OIL STATIC RADIAL SE	2014.04.08
SB CF6-72-1388	FAN MODULE (72-00-01) - NO.1 BEARING STA	2014.04.08
SB CF6-72-1401	FAN MODULE (72-00-01) -NO. 1 BEARING MAN	2014.04.08
SB CF6-72-1405	ENGINE - NO. 1, 2, AND 3 BEARING AREAS F	2018.12.21
SB CF6-72-1414	COMPRESSOR ROTOR ASSEMBLY (72-31-00) - R	2014.04.08
SB CF6-72-1427	CF6-80C2 ONE TIME INSP' OF NO. 3 BEARING	2012.05.10
SB CF6-72-1506	ENGINE - FORWARD FAN CASE ASSEMBLY (72-2	2016.09.07
SB CF6 72-1520	REWORK OF ACCESSORY HEAT SHIELD ASSEMBLY FOR TBC PROTECTION	2018.12.15
SB CF6-72-1562	STAGE 1 & 2 HPTR DISK ULTRASONIC INSPECTION	2018.12.15

SB NO.	DESCRIPTION	ACCOMPLISHMENT DATE
SB CF6-72A1026	SB CF6-72-A1026 ETCH,FPI,ECI OF DOVETAIL	2003.09.07
SB CF6-73-0289	SB CF6-73-0289 FN - DF - IMPROVED WELDED	2000.09.13
SB CF6-73-0295	SB CF6-73-0295 VSV FUEL TUBE & HOSE - IN	2006.10.06
SB CF6-73-0326	FUEL MANIFOLD INSPECTION AND CLAMP REPLA	2008.03.18
SB CF6-73-0337	SB 73-337R3 FUEL NOZZLES NEW SNAP RINGS	2009.10.07
SB CF6-73-0346	FUEL AND CONTROL -ACCESSORY DRIVE MODULE	2014.04.08
SB CF6-73-0361	ENGINE FUEL AND CONTROL - (72-00-00) -	2014.04.08
SB CF6-73-0365	FUEL MANIFOLD PTFE TAPE INSTALLTION	2009.02.05
SB CF6 73-0371	PREVENT FAILURE OF THE FUEL MANIFOLD	2018.12.19
SB CF6 73-0422	PREVENT FAILURE OF THE FUEL MANIFOLD	2018.12.19
SB CF6 73-A0242	FUEL TUBES REPLACEMENT	2017.09.05
SB CF6-73-A0283	SB CF6-73-A283 AGB-IDLER ADAPTER INSPECT	1998.10.04
SB CF6-73-A0401	FUEL TUBES REPLACEMENT	2017.09.05
SB CF6 -75-0197	SB 75-0197 NEW PS3 TUBE AND CLAMP IMPROV	2006.10.06
SB CF6-77-0049	SB CF6-77-049 CRF ACCELEROMETER-JAM NUT	2006.10.06

SB NO.	DESCRIPTION	ACCOMPLISHMENT DATE
SB CF6-77-0056	SB CF6-77-056 - PS3 SYSTEM - REWORK	2000.09.13
SB CF6-77-0062	SB 77-0062 W13/TEO H/W ROUTING & BRACKET	2006.10.06
SB CF6-77-0063	NEW W13 CABLE & OIL TEMP SENSOR	2009.10.08
SB CF6-77-0064	W9,W10 and W13 ELECTRICAL CABLE PROTECTION	2009.10.13
SB CF6-79-0058	SB CF6-79-058 OIL-B SUMP SCAVENGE TUBE N	2006.10.06
SB CF6-79-0060	SB CF6-79-060R1 OIL - MCD TUBE - REMARK	2000.09.13
SB CF6-79-0063	SB CF6-79-063R1 D-SUMP SCAV TUBE - SAFET	2000.09.13
SB CF6-79-0069	SB CF6-79-0069R1 ACC' DRV OIL MANIFLD	2000.09.16
SB CF6-79-0082	SB 79-0082 OIL TUBE & TRANSMITTER BRACKE	2006.10.06
SB CF6-79-0086	OIL - ACCESSORY DRIVE MODULE (72-00-05)	2009.10.08

QEC INVENTORY FORM
BOEING 767 / 747 / MD11 CONFIGURATION

Instructions:

On Receipt of the Engine, check this list and mark with a "Y" in last column to agree parts are fitted, or mark with a "N" if not fitted. Use the Legend at the bottom when a P/N or S/N is Not Visible, Applicable or Required. TO VIEW PICTURE OF PART LOCATION CLICK ON THE ITEM NUMBER IN THE FIRST COLUMN.

<u>Description Of Component</u>	<u>Typical Part Number(s)</u>	<u>Manual References</u>	<u>Qty</u>	<u>Part No</u>	<u>Serial No</u>	<u>Installed? Y/ N</u>
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ATA 24 Electrical Power

<u>1</u>	IDG (Generator) *	739515A	PPBU 71-00-02-13-1-35	1	739515B	F0702	Y
<u>2</u>	IDG QAD Ring Adapter	735876	PPBU 71-00-02-13-1-15	1	99167-7308	2021	Y

ATA 26 Fire Protection

<u>3</u>	Fire/Overheat Detector HPC Top	472572 (S332T301-236)	PPBU 71-00-02-14-105	1	N.V	N.V	Y
<u>4</u>	Fire/Overheat Detector Horiz. Fireseal	472569 (S332T301-239)	PPBU 71-00-02-14-75	1	S332T100-9	1968	Y
<u>5</u>	Fire/Overheat Detector CRF Top	472570 (S332T301-237)	PPBU 71-00-02-14-45	1	S332T100-33	6511	Y
<u>6</u>	Fire/Overheat Detector CRF Bottom	472571 (S332T301-238)	PPBU 71-00-02-14-05	1	S332T100-34	818A	Y

ATA 29 Hydraulic System

<u>7</u>	Hydraulic Pump Assembly (N/A IF NOT APPLICABLE)	350880-6	PPBU 71-00-05-2B-110	1	350880-7	MX354742	Y
<u>8</u>	Hydraulic Pump Assembly MD11 CONFIG. (N/A IF NOT APPLICABLE)	350880-6	PPBU 71-00-05-2B-110	1	N.A	N.A	N
<u>9</u>	Hydraulic Disconnect	152020-1-20E (S270T230-21)	PPBU 71-00-02-25-20	1	S270T230-21	9114	Y
<u>10</u>	Hydraulic Hose Valve Check	S270T252-7 (9R3324)	PPBU 71-00-02-25-30	1	9R3324	66309	Y
<u>11</u>	Hydraulic Disconnect	AE81565N (S270T202-1)	PPBU 71-00-02-25-310	1	NOT INSTALLED	NOT INSTALLED	N

ATA 30 Ice & Rain Protection

<u>12</u>	Anti-Ice Shut-off Valve *	N/R		1	N/R	N/R	N
<u>13</u>	Anti-Ice Pressure Switch *	N/R		1	N/R	N/R	N

ATA 36 Pneumatic

<u>14</u>	8th Stage Duct	332U2321-1	PPBU 71-00-02-21-1-20	1	332U2321-1	72	Y
<u>15</u>	I.P Check Valve	773856-19	PPBU 71-00-02-21-1-50	1	3202544-4	12936	Y
<u>16</u>	Duct Assy. (after I.P check)	332U2324-7	PPBU 71-00-02-21-1-100	1	332U2324-7	1045	Y

N/A: Not Applicable N/R: Not Required N/V: Not Visible

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BOEING 767 / 747 / MD11 CONFIGURATION

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	<u>Description Of Component</u>	<u>Typical Part Number(s)</u>	<u>Manual References</u>	<u>Qty</u>	<u>Part No</u>	<u>Serial No</u>	<u>Installed? Y/ N</u>
17	14th Stage Duct	332U2322-36	PPBU 71-00-02-21-1-05	1	332U2322-26	1220	Y
18	HP Shut-Off Valve	S210T120-141	PPBU 71-00-02-21-1-35	1	S210T120-131	930451	Y
19	Tube (from HP control valve to shutoff valve)	332U2340-11	PPBU 71-00-02-10-01-300	1	332U2340-25	NSN	Y
20	IDG Air Shut-off Valve	23E59-4 / 9377M65P02	IPC 24-11-07-01-35 S/B 75-0185	1	23E59-4	CMD43900	Y
21	Valve Turbine Clearance Control LH	5830213-102 (9378M65P02)	IPC 72-00-00-17-10	1	N.A	N.A	Y
22	Valve Turbine Clearance Control RH	5830213-101 (9378M65P01)	IPC 72-00-00-20-10	1	1383M67P07	PFBANU20	Y
23	High Press Air Controller	773289-13	PPBU 71-00-02-10-1-10	1	773289-18	910338	Y
24	Pressure Controller Valve (PRV)	792755-XX	PPBU 71-00-02-10-1-5	1	792755-15	890341	Y

ATA 71 Power Plant

25	FWD Engine Mount	1301M28G06/07/08	IPC 71-00-00-90-515	1	1806M80G01	MTE0721	Y
26	Aft Engine Mount Installation	310U2020-3/2/6/4	PPBU 71-00-04-01-10	1	310U2020-26	326PF/249	Y
27	Engine Mount Shoulder Bolts	310T1036-24/20	PPBU 71-00-02-02-05	2	310T1036-24	NSN	Y
28	Left Hold Open Cowl Bracket	224-2271-507	PPBU 71-00-02-3-1-157	1	N.V	N.V	Y
29	Right Hold Open Cowl Bracket	224-2271-508	PPBU 71-00-02-3-2-140	1	N.V	N.V	Y
30	Trottle Control Box	315T1040-19	PPBU 71-00-02-23-20	1	N/A	N/A	N/A
31	Wire Bundle (W5302)	286T5302-081	PPBU 71-00-02-18-1-2	1	N/R	N/R	Y
32	Wire Bundle (W5310)	286T5310	PPBU 71-00-02-18-1-4	1	N/R	N/R	Y
33	Wire Bundle (W5318)	286T5318	PPBU 71-00-02-18-1-7	1	N/R	N/R	Y
34	Wire Bundle (W5316)	286T5316	PPBU 71-00-02-18-1-6	1	N/R	N/R	Y
35	Wire Bundle (W5322)	286T5322	PPBU 71-00-02-18-1-2	1	N/R	N/R	Y
36	Wire Bundle (W5334)	286T5334	PPBU 71-00-02-18-1-8	1	N/R	N/R	Y
37	Wire Bundle (W5304)	286T5304 (B767) 61B45304 (B747)	PPBU 71-00-02-18-1-11	1	N/R	N/R	Y

N/A: Not Applicable N/R: Not Required N/V: Not Visible

QEC INVENTORY FORM
BOEING 767 / 747 / MD11 CONFIGURATION

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	<u>Description Of Component</u>	<u>Typical Part Number(s)</u>	<u>Manual References</u>	<u>Qty</u>	<u>Part No</u>	<u>Serial No</u>	<u>Installed? Y/ N</u>
<u>38</u>	Wire Bundle (W5306)	286T5306	PPBU 71-00-02-18-1-13	1	N/R	N/R	Y
<u>39</u>	Wire Bundle (W5324)	286T5324	PPBU 71-00-02-18-1-09	1	N/R	N/R	Y
<u>40</u>	Wire Harness (W5314)	286T5314	PPBU 71-00-02-17-2-10	1	N/R	N/R	Y
	Wire Harness (W5326)	286T5326		1			

ATA 72 Engine

<u>41</u>	Compressor Inlet Cone	N/R	72-30-00	1	N/R	N/R	Y
<u>42</u>	Fan Module Sensor-T2	1307M68P03/ 8901-328	72-00-01-10-05	1	N.V	N.V	Y
<u>43</u>	Inlet Temperature Sensor T12	1325M60P01 / 154DN	72-00-01-15-10	1	N.V	N.V	Y
<u>44</u>	Accessory Gearbox	9372M10G37/40/29	72-65-00-01-01	1	9372M12G19	FIAAGTWW	Y
<u>45</u>	Transfer Gearbox	9372M32G09/11/12/14/18	72-63-00-01-01	1	9372M32G11	FIQAA144	Y
<u>46</u>	VSV Feedback Cable	1290M96P02	72-00-00-30-155	1	N.A	N.A	N
<u>47</u>	VSV Actuator Right Side	9691M29P16/1211245-016	72-00-02-25-10	1	1211342-005	APMRU435	Y
<u>48</u>	VSV Actuator Left Side	9691M29P16/1211245-016	72-00-02-25-10	1	1211342-005	APMRU409	Y
<u>49</u>	Control Alternator	9210M42P05/2CM16SAB3	72-00-05-35-10	1	9387M77P08	9266	Y
<u>50</u>	Accelerometer FAN	7108M19P01 / CA127M1-01	72-00-00-95-10	1	N.V	N.V	Y
<u>51</u>	Accelerometer CRF	7120M99P01	72-00-02-95-10	1	7120M99P01	VBRB4661	Y
<u>52</u>	IDG Cooling Check Valve	B1548-05-12/1332M27P01	72-00-05-92-125	1	1332M27P01	EYM41F115	Y
<u>53</u>	Valve IDG Pressure Relief	11307-4/9377M63P02/01	72-00-05-92-180	1	9377M63P02	FXM0BB56	Y
<u>54</u>	Valve-Air Shut Off	36E14-5 / 1290M18P01	72-00-00-94-10	1	1663M26P04	GWD31073	Y

ATA 73 Fuel & Control

<u>55</u>	Fuel Pump	9355M33P13	73-11-10-01-05	1	9355M33P13	SUS2148A	Y
<u>56</u>	(HMU) - HYDROMECHANICAL UNIT (N/A IF NOT APPLICABLE)	06848-442274	73-11-10-01-05	1	1383M68P20	BECK0432	Y
<u>57</u>	(MEC) - Main Engine Control (N/A IF NOT APPLICABLE)	8061-874 (1453M12P05)	S/B 73-0221	1	N.A	N.A	Y
<u>58</u>	Fuel Filter Main	9154M98P15 / AD9227-2450	73-11-60-01-02	1	9154M98P15	APF55470	Y

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	<u>Description Of Component</u>	<u>Typical Part Number(s)</u>	<u>Manual References</u>	<u>Qty</u>	<u>Part No</u>	<u>Serial No</u>	<u>Installed? Y/ N</u>
<u>59</u>	Fuel Nozzles	1968M49P03/6980200E3	73-11-40-01-10	30			Y
<u>60</u>	CIT Sensor	8901-314 / 1293M37P01	73-21-20-01-05	1	N.V	N.V	Y
<u>61</u>	(ECU) Engine Control Unit	1519M89P29	73-21-20-01-05		1519M89P31	LMDD7683	N
<u>62</u>	(PMC) Power Manangement Control	1374M94P04	73-21-20-05-10	1	N	N	N
<u>63</u>	Servo Fuel Heater	UA538283-2 / 9268M48P02	73-11-20-01-02 (80A)	1	UA538950-4	UDDM1257	Y
<u>64</u>	Fuel Manifold LH	1303M31G10	73-00-00-15-10	1	N/R	N/R	Y
<u>65</u>	Fuel Manifold RH	1303M32G10	73-00-00-15-20	1	N/R	N/R	Y
<u>66</u>	Fan Speed N1 Sensor (Fan Rear Frame)	8908-007 (9378M87P06)	73-21-50-01-05	1	N.V	N.V	Y
<u>67</u>	Flowmeter Transmitter	8TJ124GGT1(9377M61P02)	72-00-05-02-197	1	8TJ124GGT1	GDB6948L	Y
<u>68</u>	Main Fuel Hose Supply	AE706825-11 (S332U280-11)	PPBU 71-00-02-22-15	1	N.V	N.V	Y
<u>69</u>	Fuel Pressure Switch	9377M62P01(21SN04-223)	73-34-00-01-10	1	21SN04-333	CFL1297	Y
<u>70</u>	IDG Fuel/Oil Cooler	9377M44P01/UA538728-1	72-00-05-60-10	1	9377M44P01	UDDB1897	Y
<u>71</u>	Drain Module Assy	1811M82P02	73-00-00-30-728	1	1811M82P02	FXM2DM07	Y
<u>72</u>	Fuel Pressure Transmitter	418-17054	73-34-00-01-155	1	418-17054	AAF4293	Y

ATA 74 Ignition

	<u>Description Of Component</u>	<u>Typical Part Number(s)</u>	<u>Manual References</u>	<u>Qty</u>	<u>Part No</u>	<u>Serial No</u>	<u>Installed? Y/ N</u>
<u>73</u>	Ignition Exciter (Upper)	9238M66P07/10-631045-1	74-11-10-01-10	1	10-632045-3	L56937	Y
<u>74</u>	Ignition Exciter (Lower)	9238M66P08/10-631045-2	74-11-10-01-10	1	10-631045-3	BNDV6608	Y
<u>75</u>	Ignition Lead Upper	1346M56P04/9043105-4	74-21-10-01-32	1	1346M56P04	U8110	Y
<u>76</u>	Ignition Lead Lower	1346M56P04/9043105-4	74-51-10-01-32	1	1346M56P04	KM5356	Y
<u>77</u>	Igniter Plugs Upper Type IV	9387M23P02	74-21-30-01-25	1	N/R	N/R	Y
<u>78</u>	Igniter Plugs Lower Type IV	9387M23P02	74-21-30-01-25	1	N/R	N/R	Y

ATA 75 Air

	<u>Description Of Component</u>	<u>Typical Part Number(s)</u>	<u>Manual References</u>	<u>Qty</u>	<u>Part No</u>	<u>Serial No</u>	<u>Installed? Y/ N</u>
<u>79</u>	Left VB/V Actuator	9378M51P08/1211285-008	75-32-20-01-05	1	1211318-004	APMNE152	Y

N/A: Not Applicable N/R: Not Required N/V: Not Visible

WORK ORDER: F19065
ENGINE MODEL: CF6-80C2
ESN: 704539
CUSTOMER: AJ WALTERS
DATE: 28th, March 2019

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BOEING 767 / 747 / MD11 CONFIGURATION

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80	Right VBV Actuator	9378M51P08/1211285-008	75-32-20-01-05	1	1211318-004	APMNE645	Y
81	VBV Feedback Cable (N/A IF NOT APPLICABLE)	1293M90P01	75-32-10-05-10	1	N.A	N.A	N
82	Valve-Signal Active Clearance	7087M94G03	75-24-20-01-10	1	N.A	N.A	N
83	IDG Air / Oil Cooler	9377M64P05	75-20-00-05-285	1	9377M44P01	UDDB1897	Y

ATA 77 Indicating

84	Fan Speed Sensor (N1)	8TJ163AAB1 (1383M18P02)	77-12-10-01-15	1	1383M18P02	GDB11233	Y
85	Thermocouple Junction Box	1383M97P03 / 606173-00	72-00-00-17-532	1	N.V	N.V	Y
86	Thermocouple (1 O'CLOCK)	1696M81P12	77-21-10-01-65	1	1962M86P01	DTJ3033	Y
87	Thermocouple (2 O'CLOCK)	1696M81P12	77-21-10-01-65	1	1962M86P01	DT99267	Y
88	Thermocouple (4 O'CLOCK)	1696M81P12	77-21-10-01-65	1	1962M86P01	DTA0208	Y
89	Thermocouple (6 O'CLOCK)	1696M81P12	77-21-10-01-65	1	1962M86P01	DTJ3601	Y
90	Thermocouple (7 O'CLOCK)	1696M81P12	77-21-10-01-65	1	1962M86P01	DTJ14686	Y
91	Thermocouple (9 O'CLOCK)	1696M81P12	77-21-10-01-65	1	1962M86P01	DTG8117	Y
92	Thermocouple (10 O'CLOCK)	1696M81P12	77-21-10-01-65	1	1962M86P01	DTJ3015	Y
93	Thermocouple (11 O'CLOCK)	1696M81P12	77-21-10-01-65	1	1962M86P01	DTE1637	Y
94	Probe Plug Pressure	8TU34PAE1 / 1303M21P01	77-21-10-01-40	1	1303M21P01	N.V	Y
95	Thermocouple Cable Upper	609200-01 / 1753M21P03	77-21-10-01-01	1	1753M21P03	DT29483	Y
96	Thermocouple Cable Lower	609201-01 / 1753M20P03	77-21-10-01-20	1	1753M21P01	DT90281	Y

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ATA 78 Exhaust							
<u>97</u>	Exhaust Plug Assembly	314U2200-10 (314U2200-23)	PPBU 71-00-02-26-15	1	<u>314U2200-1</u>	<u>1619-A</u>	<u>Y</u>
<u>98</u>	Exhaust Nozzle Assembly	314U2100-72	PPBU 71-00-02-26-25	1	<u>N.V</u>	<u>N.V</u>	<u>Y</u>
ATA 79 Oil							
<u>99</u>	Lube & Scavenge Pump	9363M10P03	79-21-10-01-02	1	<u>1665M97P01</u>	<u>LJA41046</u>	<u>Y</u>
<u>100</u>	Scavenge Oil Filter Assembly	9033M43P08 (AD9380-5011)	79-22-10-01-10	1	<u>9033M43P01</u>	<u>APF55743</u>	<u>Y</u>
<u>101</u>	Oil Tank	7075M51G09	79-11-10-01-05	1	<u>7075M51G10</u>	<u>RAE29235</u>	<u>N</u>
<u>102</u>	MCD PLUG	1306M30P02 (9371M56P01)	79-11-10-01-05	1	<u>1306M30P02</u>	<u>NSN</u>	<u>Y</u>
<u>103</u>	Oil Pressure Transmitter	418-09104 (1339M62P06)	72-00-05-12-225	1	<u>418-09104</u>	<u>9727007</u>	<u>Y</u>
<u>104</u>	Low Oil Pressure Switch	21SN04-225 (9377M60P01)	79-00-00-25-727	1	<u>21SN04-468</u>	<u>CFL0323BA</u>	<u>Y</u>
<u>105</u>	Oil Differential Pressure Switch	21SN04-224 (9377M60P02)	79-00-00-15-850	1	<u>21SN04-467</u>	<u>CFL3025BA</u>	<u>Y</u>
<u>106</u>	Oil Quantity Transmitter	9377M45P03 (8TJ146AAA1)	79-00-00-15-735	1	<u>NOT INSTALLED</u>	<u>NOT INSTALLED</u>	<u>N</u>
<u>107</u>	Oil Temperature Transmitter	1122696	79-30-00-01-320	1	<u>NOT INSTALLED</u>	<u>NOT INSTALLED</u>	<u>N</u>
<u>108</u>	Fuel/Oil Heat Exchanger	160142-4 / 9250M97P08	79-22-20-01-05	1	<u>160142-5</u>	<u>108-597</u>	<u>Y</u>
ATA 80 Starting							
<u>109</u>	Starter Duct Assembly	332U2312-1	PPBU 71-00-02-20-3-100	1	<u>332U2312-9</u>	<u>NSNY</u>	<u>Y</u>
<u>110</u>	Start Valve	979826-9	PPBU 71-00-02-20-1-25	1	<u>3291172-1</u>	<u>542740</u>	<u>Y</u>
<u>111</u>	Pneumatic Starter Unit	3505448-5-1(9281M79P03)	PPBU 71-00-02-20-1-15	1	<u>Not installed</u>	<u>Not installed</u>	<u>N</u>

Performed by: Jesus Ruiz

Date: 28-March-2019

N/A: Not Applicable N/R: Not Required N/V: Not Visible



Component and Accessory List

ESN : 704539B1F

Customer : Chromalloy

Nomenclature	Part Number	Incoming S/N	Out going S/N	Action
CONTROLLER-HIGH PRESSURE	773289-18	MISSING	910338	REPAIRED
CONTROLLER-PRV	792755-15	MISSING	890341	OVERHAULED
SHUT-OFF VALVE	510-0031-1	GWD31073	GWD31073	VISUAL INSPECTED
ACCELEROMETER N2	CA955M701	VBRBY661	VBRBY661	VISUAL INSPECTED
CABLE D4198P, D4208P	61B45322	MISSING	N/A	REPAIRED
DETECTOR FIRE LOWER FWD	7882	MISSING	1968	REPAIRED
STARTER	MISSING	MISSING	MISSING	-
EGT JUNCTION BOX	607999-00	GDBB418R	GDBB418R	VISUAL INSPECTED
HARNESS EGT UPPER	609200-01	DTA5035	DT79483	REPAIRED
HARNESS EGT LOWER	609201-01	H0402-32	DT90281	REPAIRED
DETECTOR FIRE LOWER AFT	S332T100-34	MISSING	391	REPAIRED
COOLING AIR VALVE	5860040-107	PFBANU20	PFBANU20	VISUAL INSPECTED
SENSOR T3	8TC34ABK1	GDBA907E	GDBA907E	VISUAL INSPECTED
ENG MOUNT AFT	310U2020-8	MISSING	N/A	OVERHAULED
WIRE BUNDLE FIRE DETECTOR	S332T100-33	MISSING	279	REPAIRED
WIRE BUNDLE ASSY	61B45306	MISSING	N/A	REPAIRED
WIRE BUNDLE ASSY	61B45324	MISSING	N/A	REPAIRED
WIRE BUNDLE ASSY	61B45310	MISSING	N/A	REPAIRED
DETECTOR FIRE UPPER FWD	901560	MISSING	925	REPAIRED
CHECK VALVE PN LOW PRESS.	3202544-4	MISSING	2936	TESTED
VALVE-HPSOV/PRV	802170-9	MISSING	930451	OVERHAULED
IDG AIR/OIL HEAT EXCHANGER	35E38-5	AAR4539-001	AAR4539-001	VISUAL INSPECTED
VALVE IDG OIL COOLER	23E59-7	GWD13600	GWD13600	VISUAL INSPECTED
STARTER VALVE	MISSING	MISSING	MISSING	-
VSV ACTUATOR	1211342-005	APMRU409	APMRU409	VISUAL INSPECTED
VSV ACTUATOR	1211342-005	APMRU435	APMRU435	VISUAL INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PCY1124G	CSDB9233	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	CSDF5100	CSDD5231	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PCY1104G	CSDD8164	INSPECTED



Component and Accessory List

Nomenclature	Part Number	Incoming S/N	Out going S/N	Action
FUEL NOZZLE (SILVER)	6980200E8	CSDJ5103	CSDD8167	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	CSDG7355	CSDD8180	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	CSDF4940	CSDD8213	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFD2023	CSDD8216	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE2179	CSDD8245	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	CSDH9499	CSDD8253	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PCY2940G	CSDE1261	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFD9239	CSDE2877	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE9406	CSDE3081	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PCY2953G	CSDE3274	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE6538	CSDE3655	INSPECTED
FUEL NOZZLE (BLUE)	6980200E4	PSFD1322	P/N: 6980200E6 S/N: PSFA2778	OVERHAULED
FUEL NOZZLE (BLUE)	6980200E4	PHCKB294	CSDG8736	OVERHAULED
FUEL NOZZLE (SILVER)	6980200E8	CSDD6182	CSDF8796	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	CSD82537	CSDG6561	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE7133	CSDH8412	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE5106	P/N: 6980200E5 S/N: PSFD6663	OVERHAULED
FUEL NOZZLE (SILVER)	6980200E8	PSFE6532	P/N: 6980200E5 S/N: CSDF6406	OVERHAULED
FUEL NOZZLE (SILVER)	6980200E8	PSFE7167	CSDJ5426	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE6605	PCY0656G	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE6627	P/N: 6980200E5 S/N: PSFD8447	OVERHAULED
FUEL NOZZLE (SILVER)	6980200E8	PSFE6582	PCY0776G	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE6562	PSFA8100	INSPECTED
FUEL NOZZLE (SILVER)	6980200E8	PCY1121G	P/N: 1968M49P08 S/N: PSFD2073	TESTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE6535	P/N: 1968M49P08 S/N: PSFD2196	TESTED
FUEL NOZZLE (SILVER)	6980200E8	PCY0961G	P/N: 1968M49P08 S/N: PSFD2238	TESTED
FUEL NOZZLE (SILVER)	6980200E8	PSFE6569	P/N: 1968M49P08 S/N: PSFD2252	TESTED



Component and Accessory List

Nomenclature	Part Number	Incoming S/N	Out going S/N	Action
THERMOCOUPLE PROBE	862-7-19	DTM6974	DTE1637	INSPECTED / TESTED
THERMOCOUPLE PROBE	862-7-19	41807	DTJ3601	INSPECTED / TESTED
THERMOCOUPLE PROBE	862-7-19	41809	DTJ4686	INSPECTED / TESTED
THERMOCOUPLE PROBE	862-7-19	DTM6975	DT99266	INSPECTED / TESTED
THERMOCOUPLE PROBE	862-7-19	Y5053	DTJ3015	INSPECTED / TESTED
THERMOCOUPLE PROBE	862-7-19	41938	DTA0208	INSPECTED / TESTED
THERMOCOUPLE PROBE	862-7-19	DTM6977	DTJ3033	INSPECTED / TESTED
THERMOCOUPLE PROBE	862-7-19	DTM6978	DTB8117	INSPECTED / TESTED
QAD RING IDG	S281T001-5	MISSING	2021	REPAIRED
I D G	739515B	MISSING	F0702	TESTED
HYDRAULIC PUMP	350880-7	MISSING	MX354742	INSPECTED / TESTED
SOLENOID BY PASS	221400	MISSING	WA098	INSPECTED / TESTED
OIL PUMP LUBE & SCAV	RR37100D	LJA41046	LJA41046	VISUAL INSPECTED
STATOR ALT	87006-5	HTLS9266	HTLS9266	VISUAL INSPECTED
ROTOR ALT	85465-3	R0318J	R0318J	VISUAL INSPECTED
TRANSMITTER OIL PRESS	418-09104	9727007	9727007	VISUAL INSPECTED
SWITCH FUEL PRESS	21SN04-333	CFL1297A	CFL1297A	VISUAL INSPECTED
SERVO FUEL HEATER	UA538950-4	UDDM1257	UDDM1257	VISUAL INSPECTED
FILTER FUEL MAIN	AD9227-2450	APF55470	APF55470	VISUAL INSPECTED
TRANSMITTER FUEL PRESS	418-17054	AAR9017	AAR9017	VISUAL INSPECTED
FUEL/OIL HEAT EXCHANGER	160142-5	108-597	108-597	VISUAL INSPECTED
SWITCH OIL FILTER DIFF PRESS	21SN04-467	CFL3025BA	CFL3025BA	VISUAL INSPECTED
PUMP MAIN FUEL	5006834M	SUS2148A	SUS2148A	VISUAL INSPECTED
IDG CHECK VALVE	B1548-05-12	FXM41FU5	FXM41FU5	VISUAL INSPECTED
VALVE IDG PRESS RELIEF	C2608-01	FXM2BB60	FXM2BB60	VISUAL INSPECTED
SENSOR OIL TEMPERATURE	8TC34ABV1	DTL8710	DTL8710	VISUAL INSPECTED
PUMP ELECTRO HYDRAULIC	MISSING	MISSING	MISSING	-
COOLER IDG FUEL/OIL	UA538728-1	UDDB1897	UDDB1897	VISUAL INSPECTED
TRANSMITTER FUEL FLOW	8TJ124GGT1	GDB6948L	GDB6948L	VISUAL INSPECTED
H M U	442564	BECK0432	BECK0432	VISUAL INSPECTED



Component and Accessory List

Nomenclature	Part Number	Incoming S/N	Out going S/N	Action
SWITCH OIL PRESSURE	21SN04-468	CFL0323BA	CFL0323BA	VISUAL INSPECTED
SENSOR N2	8TJ162AAB1	GDB10799	GDB10799	VISUAL INSPECTED
SENSOR T1.2	154DN2	EGN58252	EGN58252	VISUAL INSPECTED
SENSOR T1.2	154DN2	EGN58134	EGN58134	VISUAL INSPECTED
CABLE D14231P D4224P	61B45314	MISSING	N/A	REPAIRED
WIRE BUNDLE ASSY FAN	61B45326	MISSING	N/A	REPAIRED
ELECTRONIC CONTROL UNIT	1820M33P14	ECDD7073	P/N: 1519M89P31 S/N: LMDD7683	REPAIRED
ACCLRMTR FAN FRAME VIB PICK	CA127M1-01	NOT FOUND	VBRAC595	VISUAL INSPECTED
ACCLRMTR VIB N1	MISSING	MISSING	MISSING	-
CABLE ELEC W10	1853M61G01	LMDC4396	LMDC4396	VISUAL INSPECTED
CABLE ELEC W8	1853M59G01	LMDC1875	LMDC1875	VISUAL INSPECTED
CABLE ELEC W12	1853M63G01	LMDC1879	LMDC1879	VISUAL INSPECTED
CABLE ELEC W13	1853M64G18	LMDC1880	LMDC1880	VISUAL INSPECTED
CABLE ELEC W11	1853M62G01	LMDC9133	LMDC9133	VISUAL INSPECTED
CABLE ELEC W7	1853M58G01	LMDC1874	LMDC1874	VISUAL INSPECTED
CABLE ELEC W9	1853M60G01	LM DY6120	LM DY6120	VISUAL INSPECTED
UNIT CONTROL HEATER	MISSING	MISSING	MISSING	-
PLUG ENG.IDENTIFICATION	1851M56G37	ECDG3829	ECDG3829	VISUAL INSPECTED
PLUG ENG.RATING	MISSING	MISSING	MISSING	-
EXCITER IGNITION	10-631045-3	L56937	L56937	REPAIRED
EXCITER IGNITION	10-631045-3	BNDV6608	BNDV6608	REPAIRED
ACTUATOR VBV	1211318-004	APMNC645	APMNC645	VISUAL INSPECTED
ACTUATOR VBV	1211318-004	APMNE252	APMNE252	VISUAL INSPECTED
SENSOR C I T	154EW2	EGN37831	EGN37831	VISUAL INSPECTED
MOUNT ASSY FWD	FWD MOUNT04	MMTE0721	MMTE0721	VISUAL INSPECTED
PLATFORM-ENGINE MOUNT	1806M80G01	MMTE0721	MMTE0721	VISUAL INSPECTED
YOKE-ENGINE MOUNT	1806M79G01	MMTE1159	MMTE1159	VISUAL INSPECTED
SENSOR ELEC N1	8TJ163AAB1	GDB11233	GDB11233	VISUAL INSPECTED
CABLE D4226P	61B45304	MISSING	N/A	REPAIRED
SENSOR OIL LEVEL	8TJ146AAA1	GDBA665T	DTK7837	NEW



Component and Accessory List

Nomenclature	Part Number	Incoming S/N	Out going S/N	Action
OIL TANK	7075M51G10	RAE29664	RAE29235	REPAIRED
FILTER ASSY-SCAVENGE OIL	AD9380-5011	APF55743	APF55743	VISUAL INSPECTED

ESN : 704539 **TSN :** 78,236 **CSN :** 19,192 **TSLV :** 11,789 **CSLV :** 2,271
Type : C2B1F **Reason of removal :** HPC Stage 10 **Owner :** CMS
Station removed : UNK **Date :** 15 MAR 2017 **Aircraft Reg.:** HL7415 **Position :** UNK
On-wing engine complaint : - **On-wing Trend :** UNK **°C EGTM at T/O**
Last test run date : UNK **Hot day T/O EGT :** UNK **(EGTM :)** UNK
Compressor efficiency : UNK % **Turbine efficiency :** UNK %
Oil system inspection : **Contaminant found :** No **Station :** -
 Metal found : No **Station :** -
 Airflow check : Normal **Station :** All

Note: 1) All details in this work scope are transferred from CMS Engine Repair Work scope Revision Date: 12-11-18

- 2) Rebuild the engine comply with all required ADs to return engine to service.
- 3) Produce engine for actual High Thrust Configuration 60 Degree EGT shunt.
- 4) Outgoing engine thrust rating: B1F, Comply with Boeing 747 MPD Tasks D622T01.
- 5) Certify work performed and issue release certificate
- 5.1) FAA and CAAT: Engine repair and Testing 5.2) EASA : Engine Testing
- 6) Perform visual walk around inspection of engine and engine stand. Advise any unsatisfactory findings.
- 7) Record multiple incoming pictures of engine as delivered include engine stand.
- 8) Perform full mechanical/electrical engine incoming inspection.
- 9) Inventory of all installed QEC & Accessories include type of fire detection system installed. Provide inventory report to CMS.
- 10) Incoming BSI is not required.

Module S/N	TSO	CSO	Finding Borescope/Visual Inspection	Previous Maintenance Level*	Required Maintenance Level*	Remark
HA: 4539	40,8339,124	LPC:	(Utilize LPC Module, HA-A from ESN 704430)	-	-	**
1A: 4539	40,8339,124	LPCR: -		-	-	**
2A: 4539	40,8339,124	LPCS: -		-	-	**
HB: 4539	UNK	UNK	HPC: (HPC rebuild: No and utilize HPC Module, HB-B from ESN 704430)	-	-	**
2B: 4539	31,118 5,862	HPCR: (Full disassemble the rotor)		-	-	**
3B: 4539	31,118 5,862	CRF: (Incorporate AD 2014-21-01 Fuel manifold- (perform SB 73-371 & 73-422))		-	B	**
4B: 4539	11,789 2,271	HPCS:		-	B	**
HC: 4539	11,789 2,271	COMB: (CMS will provide outsource repair order)		-	-	**
HD: 4539	31,118 5,862	NOZL: (Rebuild the Nozzle Assembly, HD-C and reinstall to this engine or utilize HD-C from ESN 704430)		-	C	**

Requested by:
 [MH]
 Prepared by:
 [MT-P]

Samuel M

Date:
 23 Nov 18
 Date:

Check by:
 [MI]

Approved by:
 [CMS]

Al-M-L

Date:

Date:

27 Nov 18

Module S/N	TSO	CSO	Finding Borescope/Visual Inspection	Previous Maintenance Level*	Required Maintenance Level*	Remark
HE: 4539	11,789	2,271	HPT: (HPT Module rebuild: No and utilize HPT Module from 704430)	-	-	**
1E:4539	11,789	2,271	HPTS: (Disassemble to piece part level tag and hold for further disposition)	-	-	**
2E:4539	11,789	2,271	HPTR: (Disassemble to piece part level tag and hold for further disposition)	-	-	**
HF: 4539	31,118	5,862	LPT: (LPT Module rebuild: Yes)	-	B	**
2F: 4539	31,118	5,862	LPTR: (Utilize the LPT Rotor, 2F-A from ESN 704430)	-	-	**
3F: 4539	31,118	5,862	LPTS: (Full disassemble the LPT Stator, tag parts as removed and hold for further disposition, rebuild the assembly, 3F-C by customer provided parts.)	-	C	**
4F: 4539	31,118	5,862	TRF: (Full disassemble the TRF, tag parts as removed and hold for further disposition, Utilize TRF, 4F-A from ESN 704430)	-	-	**
HK: 4539	11,789	2,271	FCA: -	-	-	-
1K: 4539	11,789	2,271	FFC: -	-	-	-
2K: 4439	11,789	2,271	IGB: (Do not remove)	-	-	-
HG: 4539	40,833	9,124	AGB: (Perform AD 2016-08-10 AGB Heatshield Rework (SB72-1520) and reinstall to this engine)	-	A	**
HH: 4539	11,789	2,271	TGB: (Do not remove)	-	-	-
HL: 4539	31,118	5,862	FS: (Utilize the FS Module, HL-A from ESN 704430)	-	-	**
1L: 4539	31,118	5,862	FFS: -	-	-	**
2L: 4539	31,118	5,862	FMS: -	-	-	**

* Maintenance Levels of Sub-module/Module

Type "A" "Inspection"

Inspect/Minimum repair the sub-module/module.

Type "B" "Partial repair/Performance restoration"

Restore almost or all of the performance items of the sub-module/module. The items listed in Type "A" are also performed.

Type "C" "Overhaul"

Fully restore the performance items and perform piece-part inspection. The items listed in Type "A" and "B" are also performed.

** See special instruction in page 3-4

Requested by:

[MH]

Samrat

Date:

23 Nov 18

Check by:

[MI]

Date:

Prepared by:

[MT-P]

Date:

Approved by:

[CMS]

Al: n.h.

Date:

27 Nov 18

Engine Disassembly/Assembly/Testing/Shipping

1. Remove modules accordingly : HA HB HC HD HE HF HG HL

Special Instructions/Comments:

Engine: 1) Send module HA HB HC HD HE HF HG HL to module area.

2) Send fan blades set for CCI and provide inspection result to CMS. Hold for disposition.

3) Continue time inspect fan case, inlet gearbox and transfer gearbox. Clean and repair as necessary.

4) Thoroughly inspect fwd and aft fan cases for evidence of corrosion. Report all findings.

5) Clean and continue time inspect forward mount.

6) Repair or replace the damaged parts in failure record and electrical finding record.

6.1) Remove and repair electrical accessories according to item 3

6.2) Repair or replace the damaged parts in failure record as follow

-Repair Spinner Cone paint (paint bad condition)

-Repair all Fan Blades (sand eroded)

-Replace Fan Forward Outer Liner No.4 (delaminated)

-Repair/replace Tube Air B-Sump Vent p/n 1967M35G01 (dent approx. 10%)

-Replace Servo Fuel Heater (thermal valve damaged, refer to incoming inspection item 6h)

7) Check VBV system linkage for looseness. Rig system as required.

8) Verified compliance with AD 2012-03-12, 3# Bearing packing inspection.

9) Visual inspect the removed accessories and QEC components. Advise all findings.

10) Remove stage 5 booster case and hold for further disposition.

11) Clean and inspect engine drain lines for freedom from obstructions.

12) Replace high pressure controller air filter (if installed)

13) Replace pressure regulator valve controller air filter (if installed)

14) Inspect exhaust nozzle and plug for continued service.

15) Provide shop visit MINI-PACK. On accessory list include type of fire detector system installed.

16) Provide outgoing picture of engine in PDF form.

HA4539 1) Disassemble the module, Utilize LPC Module, HA-A from ESN 704430

1A4539 1) Disassemble the rotor and hold for further disposition.

2A4539 1) Disassemble the booster case and hold for further disposition.

HB4539 1) Disassemble the module, Utilize HPC Module, HB-B from ESN 704430

2B4539 1) Full disassemble the rotor.

2) HPC Stage 1 disk, HPC Stage 2 disk, HPC Stage 11-14 spool and CDP Rotating Seal are time expired, process for locally scrap.

3) Send stage 3-14 blades to repair per CMS Repair Order.

4) Send stage 1 and 2 HPC Blade sets to CCI.

5) Clean and inspect all piece parts. Report all findings.

3B4539 1) Clean and inspect oil pressure and scavenge lines

Requested by:
[MH]

Samuel

Date:

23 Nov 18

Check by:

[MI]

Date:

Prepared by:

[MT-P]

Date:

Approved by:

[CMS]

D. M. L.

Date:

27 Nov 18

- 2) Remove CDP Stationary Seal and 4# Vent Seal. Provide ID tags for each. CMS will provide outsource repair order and supply replacements.
- 3) Remove and provide ID tags for all Fuel Nozzles. CMS will provide outsource repair order and supply replacements build set.
- 4) Identify Oil tubes SB compliance.
- 5) Advise all findings, the CRF exchange is authorized if required.
- 4B4539 1) Remove stage 3-13 vanes for overhaul, CMS will provide RO to CHR-THAI and will provide build set to do HPC performance restoration.
- 2) Inspect piece parts and the remaining HPCS as work scope type 4B-B
- HC4539 1) Remove Combustor. CMS will provide outsource repair order.
- HD4539 1) Disassembly the Nozzle Assembly. Provide PN & SN listing of all HPT 1 NGV. CMS will provide outsource repair order. CMS will provide build set.
- 2) Clean and inspect all piece parts. Advise all findings.
- 3) Reassemble the Nozzle Assembly.
- HE4539 1) Disassemble the HPT module and utilize HPT module from 704430
- 1E4539 1) Disassemble to piece part level tag hold for further disposition
- 2E4539 1) Full disassemble the Rotor. Clean, inspect and repair as required. Advise all findings.
- 2) HPT Stage 1 Disk is time expired.
- 3) Return stage 2 disk, spacer impeller and vane ring to CMS.
- 4) Provide PN & SN listing include repair codes of all HPT Blades. CMS will provide outsource RO.
- HF4539 1) Disassemble the module
- 2F4539 1) Disassemble the rotor tag parts as removed and hold for further disposition.
- 2) Utilize the LPT Rotor from ESN 704430
- 3F4539 1) Full disassemble the LPT Stator, tag parts as removed and hold for further disposition.
- 2) Rebuild the assembly by customer provided parts.
- 4F4539 1) Disassemble the TRF, tag parts as removed and hold for further disposition.
- 2) Utilize TRF, 4F-A from ESN 704430.
- HG4430 1) Continue time inspect for service, work type HG-A Advise any discrepancies. Repair as necessary.
- 2) Perform AD 2016-08-10 AGB Heatshield Rework (SB72-1520)
- 3) Remove components as necessary, perform visual inspection.
- 4) Replace carbon seals for components removed from AGB
- HL4539 1) Disassemble the FS module and utilize FS module, HL-A from 704430
- 1L4539 1) Disassemble the FFS tag and hold for further disposition.
- 2L4539 1) Disassemble the FMS tag and hold for further disposition.

Requested by: [MH] *Samuel*
 Prepared by: [MT-P]

Date: 23 Nov 18
 Date:

Check by: [MI]
 Approved by: *A. Sult.*
 [CMS]

Date:
 Date: 27 Nov 18

2. Summary of LLP to be replaced:

Module S/N	Nomenclature	S/N	Remaining cycle	Action
1A4539	Fan Disk	BA534352	808	Locally scrap
	Stage 2-5 Spool	VOL96989	808	Locally scrap
2B4539	Stage 1 Disk	BA529365	808	Locally scrap
	Stage 2 Disk	BA444787	808	Locally scrap
	11-14 Spool	GWNBT334	808	Locally scrap
	CDP Rot Air Seal	NCE8247F	808	Locally scrap
2E4539	HPT Disk Stage 1	GWN04RD2	934	Locally scrap
2F4539	LPT Disk Stage 1	FIAAGW24	808	Locally scrap
	LPT Disk Stage 2	FIAAGW3R	808	Locally scrap
	LPT Disk Stage 3	FIAAGVVR	808	Locally scrap
	LPT Disk Stage 4	FIAAGK46	808	Locally scrap
	LPT Disk Stage 5	FIAAGRP0	808	Locally scrap
	LPT Shaft	GWNKV575	808	Locally scrap
2L4539	Fan Mid Shaft	RPMFANNE	808	Locally scrap

3. Remove and repair electrical accessories according to incoming inspection and engine complaints:

- Upper EGT Harness (insulation resistance check out of limit)
- Lower EGT Harness (metal sleeve missing and damaged at 7:00 o/c)
- All EGT Probes (no. 1, 3, 4, 5, 6, 7 insulation resistance check out of limit.
- Ignition Lead System B (end of electrical wire arcing and damaged at 4:00 o/c.
- Ignition Exciter Boxes System A and B (cover and housing corroded)
- Ignition Plug System A and B (electrode end wear and carbon deposited)

Special Instructions/Comments:

None

4. Reassemble the engine according to Engine Build Up Category.

Special Instructions/Comments:

Category: Performance

5. Test the engine accordingly.

Special Instructions/Comments:

1. Perform performance acceptance test per ESM 72-00-00
2. Provide test cell results.
3. Perform long term preservation.
4. Issue engine purge certificate.
5. Perform after test video BSI, report any findings.

6. Prepare the engine for shipping accordingly.

Special Instructions/Comments:

Plastic wrap the engine for shipment as required.

Requested by:

[MH]

Prepared by:

[MT-P]

Date:

23 Nov 18

Date:

Check by:

[MI]

Approved by:

[CMS]

Date:

Date:

27 Nov 18

7. Engine Build Up Category () MINIMUM (☒) PERFORMANCE () OVERHAUL

Assembly the engine according to the "Work Instruction Reference Guide" and complete the following table.

Module SN	TSC	CSC	category MINIMUM	category PERFORMANCE	category OVERHAUL	actual type "A, B, C"	comments
HA:			-, A	B, C, <u>A</u> , -	C		
HB:			-, A	<u>B</u> , C	C		
HC:			-, A, B, <u>C</u>	B, <u>C</u> , A	<u>C</u> , B		
HD:			-, A, <u>C</u>	<u>C</u> , A	<u>C</u>		
HE:			-, A, B, <u>C</u>	B, <u>C</u>	<u>C</u>		
HF:			-, A, <u>B</u> , C	<u>B</u> , C, A	C		
HK:			-, A	A, B, -	B, A		

Special Instructions/Comments:

- Category OVERHAUL : Assemble with new or overhauled fan blades
Category PERFORMANCE : Assemble with fan blades from CCI inventory
Category MINIMUM : Assemble with serviceable fan blades (Clean surface & blend leading edge)

oOo

Requested by: [MH] <i>Samreth</i>	Date: <i>23 Nov 18</i>	Check by: [MI]	Date:
Prepared by: [MT-P]	Date:	Approved by: <i>A. S. L.</i> [CMS]	Date: <i>27 Nov 18</i>



Thai Airways International Public Company Limited
89 Vibhavadi Rangsit Road, Bangkok 10900, Thailand
Tel : 66 (0) 2545-1000, 66 (0) 2695-1000

Date : 27 Dec 2018

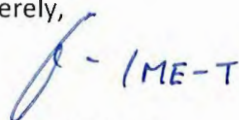
To Whom It May Concern,

Subject: Engine Purge Certificate

This is to confirm and certify that General Electric commercial turbine engine model CF6-80C2B1F, with a Manufacture serial number of **704539**, has been completely purged of all liquid or gaseous fuel, including residual and vapors. The engine is in a shipping/preservation status, and not restricted per IATA special provision A70.

The only oil inside the engine is for preservation purposes only, Per the manufactures recommendations.

Sincerely,



Sumrauy Sontong

Division Manager

Aircraft Engine Performance Test Division

Thai Airways International Public Company Limited

Technical Department, Donmueang International Airport

Donmueang, Bangkok 10210, Thailand

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