

ESN 723884
Technical Data



PW4056-3

ESN 723884

Summary Information

- Engine Serial Number (ESN): **723884**
- Engine Model: **PW4056-3**
- Engine Total Time (TT): **56,160 Hours**
- Engine Total Cycles (TC): **13,787 Cycles**
- Reason for Last Shop Removal: **REPAIR**
- Engine Total Time Since Last Shop Visit (TTSLSV): **288 Hours**
- Engine Total Cycles Since Last Shop Visit (TCSLSV): **89 Cycles**
- Last Operator: **Sky Lease Cargo.**
- Last Installation: **MD-11F, MSN 48461 (N950AR)**

ESN 723884

Shop Visit History

- Date of Shop Visit: **November 20, 2019**
- MRO: **ATOPS.**
- Reason for Last Shop Removal: **REPAIR**
- Engine Total Time at shop visit (TT): **55,872 Hours**
- Engine Total Cycles at shop visit (TC): **13,698 Cycles**
- Date of Shop Visit: **September 19, 2013**
- MRO: **EAGLE SERVICES ASIA.**
- Reason for Last Shop Removal: **REPAIR**
- Engine Total Time at shop visit (TT): **48,979 Hours**
- Engine Total Cycles at shop visit (TC): **12,812 Cycles**
- Date of Shop Visit: **June 17, 2008**
- MRO: **Lufthansa Technik.**
- Reason for removal: **OVERHAUL**
- Engine Total Time at shop visit (TT): **42,691 Hours**
- Engine Total Cycles at shop visit (TC): **11,323 Cycles**
- Date of Shop Visit: **June 27, 2001**
- MRO: **SR Technics.**
- Reason for removal: **OVERHAUL**
- Engine Total Time at shop visit (TT): **21,360 Hours**
- Engine Total Cycles at shop visit (TC): **6,001 Cycles**

Last NIS
ESN 723884



SKY LEASE CARGO

DISK SHEET COMPONENT REPORT

723884

Report Date 1/6/2020

STATUS: INSTALLED

Serial Number: 723884	Tail Num: N950AR	Pos 2	TAT at Eng. Inst. or Aircraft Delivery: 78168.00	hr mm	TAT (At Removal) 0.00
Model Number: PW4460-3	Installed Date: Nov/1/2019		TAC at Eng. Inst. or Aircraft Delivery: 18489		TAC (At Removal) 0
Current Eng. TSI: 288.44	hr mm	Eng TSN At Inst'n or AC Delivery: 55872.00	hr mm	AJC TAT at Last Eng. Installation: 78168.00	hr mm
Current Eng CSI: 89		Eng CSN At Inst'n or AC Delivery: 13698		AJC TAC at Last Eng. Installation: 18489	
TSN at Last Eng. Inst'n: 55872.00	hr mm	Engine Current TSN: 56160.44	hr mm	As off log Page: 88635	
CSN at Last Eng. Inst'n: 13698		Engine Current CSN: 13787		A/C Current TAT: 78456.44	hr mm
Current TSLSV: 288.44	hr mm	Eng. TSI at Inst. or A/C Delivery: 0.00	hr mm	A/C Current TAC: 18578	
Current CSLSV: 89		Eng. CSI at Inst. or A/C Delivery: 0		TSI Since Eng. Inst. or A/C Delivery: 288.44	hr mm
				CSI Since Eng. Inst. or A/C Delivery: 0	

Keyword	Part Number	Serial Number	ToT Hrs Instal	ToT Cyc Instal	ToT Hrs Current	ToT Cyc Current	Limt Hours	Limt Cycles	Rem Hours	Rem Cycles	REMARKS	Status	Rel AD Num
MOD 1 LPC ROTOR													
LPC FRONT HUB	50B321	CBDUAY2515	48 780	9 594	49059	9683	15000						5317
LPC STG 1 B 74 DRUM ROTOR	50D422	CBDUAY2223	48 780	9 594	49059	9683	15000						5317
LPC STG 1 B CSK	51B816	CBDUAX0158	48 780	9 594	49059	9683	15000						5317
LPC STG 2 DISK	50B302	CBDUAX0783	48 780	9 594	49059	9683	15000						5317
LPC STG 3 DISK	50B403	CBDUAX0783	48 780	9 594	49059	9683	15000						5317
LPC STG 4 DISK	50B404	CBDUAX0842	48 780	9 594	49059	9683	15000						5317
LPC HPT COUPLING	50A281	CLPXAAG119	43 638	10 831	43927	10922	30000						19078
MOD 2 HPC ROTOR													
HPC FRONT HUB	51H572	CENCAJ9144	43 098	9 141	43387	8230	15000						5770
HPC STG 5 DISK	56H705	CENCAI9290	43 041	9 011	43330	9100	15000						5900
HPC STG 6 12 DRUM ROTOR	53H676-101	CFGPAAD061	51 096	11 005	51385	11094	15000						3906
HPC STG 6 DISK	50H108	CLDLC60811	24 052	6 083	24341	6172	15000						8828
HPC STG 7 DISK	51H426-02	C207AA0001	51 096	11 005	51385	11094	15000						3906
HPC STG 8 DISK	51H308	C208AA0014	51 096	11 005	51385	11094	15000						3906
HPC STG 9 DISK	53H676-02	CFHTAA0019	51 096	11 005	51385	11094	15000						3506
HPC STG 9 DISK	51H710	C210AAD018	51 096	11 005	51385	11094	15000						3906
HPC STG 10 DISK	51H711	C211AA0010	51 096	11 005	51385	11094	15000						3906
HPC STG 10 DISK	53H676-03	CFKGA0027	51 096	11 005	51385	11094	15000						3506
HPC STG 13 15 DRUM ROTOR	56H013-01	CENCAI9998	51 646	8 703	51935	8792	15000						6208
HPC STG 13 DISK	56H013-02	CENCAV8013	51 646	8 703	51935	8792	15000						6208
HPC STG 14 DISK	56H013-03	CENCAV0910	51 646	8 703	51935	8792	15000						6208
HPC STG 15 DISK	56H013-04	CENCAU9278	51 646	8 703	51935	8792	15000						6208
HPC DRIVE SHAFT	54H767	CENCAI5164	49 839	11 213	50228	11302	15000						3698
HPC DIFFUSER AIRSEAL	54H762	CENCAI9278	43 098	9 141	43387	9230	15000						5770
MOD 3 HPT ROTOR													
HPT STG 1 HUB	57L301	CKLBE22454	27 038	6 377	27327	6456	15000						8534
HPT STG 2 HPT REAR HUB	57L802	CKLBDIA9913	48 955	11 329	49244	11418	15000						3582
HPT STG 1 AIRSEAL (OUTER)	50L879	C331AA0300	47 907	10 850	48196	11039	13800						2861
HPT STG 2 BLADE RET PLATE	50L242	C342AA0380	48 955	11 329	49244	11418	15000						3582
HPT STG 1 AIRSEAL (INNER)	56L664	CKLBD23519	31 730	4 193	32019	4282	14800						10518

CERTIFIED BY:

C. DEROGT.

NOTE Times = HH MM Hours Minutes

6TH APRIL '20





SKY LEASE CARGO

DISK SHEET COMPONENT REPORT

723884

Report Date 1/6/2020

STATUS: INSTALLED

Serial Number: 723884	Tail Num: N950AR Pos 2	TAT at Eng. Inst. or Aircraft Delivery: 78168.00 hr mm	TAT (At Removal) 0.00
Model Number: PW4460-3	Installed Date: Nov/1/2019	TAC at Eng. Inst. or Aircraft Delivery: 16489	TAC (At Removal) 0
Current Eng. TSI: 288.44 hr mm	Eng TSN At Inst'n or AC Delivery: 55872.00 hr mm	A/C TAT at Last Eng. Installation: 78168.00 hr mm	Removed From Reason For Removal
Current Eng CSI: 89	Eng CSN At Inst'n or AC Delivery: 13698	A/C TAC at Last Eng. Installation: 16489	
TSN at Last Eng. Inst'n: 55872.00 hr mm	Engine Current TSN: 56180.44 hr mm	As of log Page: 88935	
CSN at Last Eng. Inst'n: 13698	Engine Current CSN: 13767	A/C Current TAT: 78456.44 hr mm	
Current TSLSV: 288.44 hr mm	Eng. TSI at Inst. or A/C Delivery: 0.00 hr mm	A/C Current TAC: 16578	
Current CSLSV: 89	Eng. CSI at Inst. or A/C Delivery: 0	TSI Since Eng Inst. or A/C Delivery: 288.44 hr mm	
		CSI Since Eng. Inst. or A/C Delivery: 89	

Keyword	Part Number	Serial Number	ToT Hrs Install	ToT Cyc Install	ToT Hrs Current	ToT Cyc Current	Limit Hours	Limit Cycles	Rem Hours	Rem Cycles	REMARKS	Status	Ref. AD Num
1PT STG 2 AIRSEAL	53L030	CKLBFS3141	27,038	6,377	27,327	6,466	13800			7334			
1PT3 DISK	50N803	CLDLA02633	48,780	9,594	49,069	9,683	15000			5317			
MOD 4 LPT ROTOR													
1PT4 DISK	50N924	CLDLBD3205	48,780	9,594	49,069	9,683	15000			5317			
1PT STG 5 HUB	51H4505	CLDLB04029	48,780	9,594	49,069	9,683	15200			5317			
1PT6 DISK	50H485-01	CLDLBB5035	48,780	9,594	49,069	9,683	15000			5317			
1PT 3 AIRSEAL (OUTER)	50H412	CLDLAK4003	48,780	9,594	49,069	9,683	15000			5317			
1PT 4 AIRSEAL	51H038	CLDLCX3834	27,038	6,377	27,327	6,466	15000			8534			
1PT 5 AIRSEAL	50H419	CLDLA49702	48,780	9,594	49,069	9,683	15000			5317			
LPT SHAFT	50A077	CLDLA58589	48,780	9,594	49,069	9,683	30000			20317			
1PT 3 AIRSEAL (INNER)	50H521	CLDLAY9807	48,780	9,594	49,069	9,683	15000			5317			

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[Signature]

C. DEREGT.



CERTIFIED BY:

NOTE: Times = HH:MM Hours:Minutes

6TH APRIL '20

Last LLP Sheet
ESN 723884

ENGINE MODEL:	PW4056-3
ENGINE S/N:	P723884
TSN:	56,161
CSN:	13,787
TSLSV:	288
CLSLV:	89
LAST THRUST RATE SETTING:	PW4460-3
AS OF DATE:	06-Apr-20
LAST OPERATOR:	Sky Lease Cargo

LIFE LIMITED PART STATUS

IIN	DESCRIPTION	P/N	S/N	SINCE NEW		CYCLE USAGE			OEM CYCLE LIMIT			REMAINING		
				HOURS	CYCLES	4052/4056	4060 / 4062 4156 / 4158 4164 / 4168	4460/4462	4052/4056	4060 / 4062 4156 / 4158 4164 / 4168	4460/4462	4052/4056	4060 / 4062 4156 / 4158 4164 / 4168	4460/4462
FAN ROTOR MODULE														
A0032	HUB, FRONT COMPRESSOR	50B321	CBDUAY2515	49,069	9,683	0	0	9,683	15,000	15,000	15,000	5,317	5,317	5,317
A0033	DISK, DRUM ROTOR, 1.6 - 4	50B422	CBDUAY2223	49,069	9,683	0	0	9,683	15,000	15,000	15,000	5,317	5,317	5,317
A0034	DISK, STAGE 1.6	51B816	CBDUAX0188	49,069	9,683	0	0	9,683	15,000	15,000	15,000	5,317	5,317	5,317
A0035	DISK, STAGE 2	50B302	CBDUAX0783	49,069	9,683	0	0	9,683	15,000	15,000	15,000	5,317	5,317	5,317
A0036	DISK, STAGE 3	50B403	CBDUAX0763	49,069	9,683	0	0	9,683	15,000	15,000	15,000	5,317	5,317	5,317
A0037	DISK, STAGE 4	50B404	CBDUAX0842	49,069	9,683	0	0	9,683	15,000	15,000	15,000	5,317	5,317	5,317
LPC/LPT COUPLING														
0070	TURBINE SHAFT (LPC/LPT) COUPLING	50A281	CLPXA0119	43,927	10,922	0	0	10,922	30,000	30,000	30,000	19,078	19,078	19,078
HPC ROTOR MODULE														
B0183	HUB, HPC FRONT	51H572	CENCAJ9144	43,387	9,230	0	0	9,230	20,000	15,000	15,000	7,693	5,770	5,770
B0181	HPC DISK, STAGE 5	56H705	CENCAM9299	43,330	9,100	0	0	9,100	20,000	15,000	15,000	7,866	5,900	5,900
B0184	HPC DISK, DRUM ROTOR, 6 - 12	53H676-101	CFGPA0061	51,385	11,094	0	0	11,094	20,000	15,000	15,000	5,208	3,906	3,906
B0185	HPC DISK, STAGE 6	50H106	CLDLC60811	24,341	6,172	0	0	6,172	20,000	15,000	15,000	11,770	8,828	8,828
B0186	HPC DISK, STAGE 7	51H426-02	C207AA0001	51,385	11,094	0	0	11,094	20,000	15,000	15,000	5,208	3,906	3,906
B0187	HPC DISK, STAGE 8	51H308	C208AA0014	51,385	11,094	0	0	11,094	20,000	15,000	15,000	5,208	3,906	3,906
B0188	HPC DISK, STAGE 9	53H676-02	CFHTAA0019	51,385	11,094	0	0	11,094	20,000	15,000	15,000	5,208	3,906	3,906
B0189	HPC DISK, STAGE 10	51H710	C210AA0018	51,385	11,094	0	0	11,094	20,000	15,000	15,000	5,208	3,906	3,906
B0190	HPC DISK, STAGE 11	51H711	C211AA0010	51,385	11,094	0	0	11,094	20,000	15,000	15,000	5,208	3,906	3,906
B0191	HPC DISK, STAGE 12	53H676-03	CFHGA0027	51,385	11,094	0	0	11,094	20,000	15,000	15,000	5,208	3,906	3,906
B0193	HPC DISK, DRUM ROTOR, 13 TO 15 AND HPC DRIVE SHAFT	56H013-01	CENCA79998	51,935	8,792	0	0	8,792	20,000	15,000	15,000	8,277	6,208	6,208
B0194	HPC DISK, STAGE 13	56H013-02	CENCAW6013	51,935	8,792	0	0	8,792	20,000	15,000	15,000	8,277	6,208	6,208
B0195	HPC DISK, STAGE 14	56H013-03	CENCAW3910	51,935	8,792	0	0	8,792	20,000	15,000	15,000	8,277	6,208	6,208
B0196	HPC DISK, STAGE 15	56H013-04	CENCAU9278	51,935	8,792	0	0	8,792	20,000	15,000	15,000	8,277	6,208	6,208
B198	HPC REAR HUB (STAGE 15)	54H803-02	CENCAU8781	51,935	8,792	0	0	8,792	20,000	15,000	15,000	8,277	6,208	6,208
B0197	HPC DRIVE SHAFT	54H767	CENCAN5164	50,228	11,302	0	0	11,302	20,000	15,000	15,000	4,930	3,698	3,698
B0201	HPC AIRSEAL, DIFFUSER	54H792	CENCAN9278	43,387	9,230	0	0	9,230	20,000	15,000	15,000	7,693	5,770	5,770
HPT ROTOR MODULE														
C0402	HUB, TURBINE FRONT (STAGE 1)	52L301	CKLBE22454	27,327	6,466	0	0	6,466	18,000	13,700	13,700	9,504	7,234	7,234
C0420	HUB, TURBINE INTER. REAR (STAGE 2)	52L802	CKLBBM9913	49,244	11,418	0	0	11,418	20,000	15,000	15,000	4,776	3,582	3,582
C0403	AIRSEAL, HPT STAGE 1*	50L879	C331AA0300	48,196	11,039	0	0	11,039	18,900	13,900	13,900	3,890	2,861	2,861
C0423	PLATE, HPT STAGE 2 BLADE RETAINING	50L242	C342AA0380	49,244	11,418	0	0	11,418	20,000	15,000	15,000	4,776	3,582	3,582
C0408	AIRSEAL, HPT STAGE 2*	53L030	CKLBFS3141	27,327	6,466	0	0	6,466	15,900	13,800	13,800	8,450	7,334	7,334
C0410	AIRSEAL, HPT STAGE 1 (INNER)*	50L664	CKLBD23519	32,019	4,282	0	0	4,282	16,800	14,800	14,800	11,939	10,518	10,518
LPT ROTOR MODULE														
D0474	DISK, LPT STAGE 3	50N803	CLDLA62633	49,069	9,683	0	0	9,683	20,000	15,000	15,000	7,089	5,317	5,317
D0480	DISK, LPT STAGE 4	50N924	CLDLBD3205	49,069	9,683	0	0	9,683	20,000	15,000	15,000	7,089	5,317	5,317
D0489	HUB, REAR TURBINE STAGE 5	51N505	CLDLBD4025	49,069	9,683	0	0	9,683	20,000	15,000	15,000	7,089	5,317	5,317
D0494	DISK, LPT STAGE 6	50N486-01	CLDLBB5035	49,069	9,683	0	0	9,683	20,000	15,000	15,000	7,089	5,317	5,317
D0472	AIRSEAL, LPT STAGE 3	50N521	CLDLAY9807	49,069	9,683	0	0	9,683	20,000	15,000	15,000	7,089	5,317	5,317
D0479	AIRSEAL, LPT STAGE 4	51N038	CLDLXC3834	27,327	6,466	0	0	6,466	10,900	15,000	15,000	6,201	8,534	8,534
D0488	AIRSEAL, LPT STAGE 5	50N419	CLDLA49702	49,069	9,683	0	0	9,683	20,000	15,000	15,000	7,089	5,317	5,317
0432	FRONT COMP. DRIVE TURB. (LPT) SHAFT	50A077	CLDLAS8589	49,069	9,683	0	0	9,683	30,000	30,000	30,000	20,317	20,317	20,317
0434	AIRSEAL, LPT STAGE 3	50N412	CLDLAK4003	49,069	9,683	0	0	9,683	20,000	15,000	15,000	7,089	5,317	5,317
FIRST LIMITER:											3,890	2,861	2,861	

* SEE ASB PWENG-A72-812

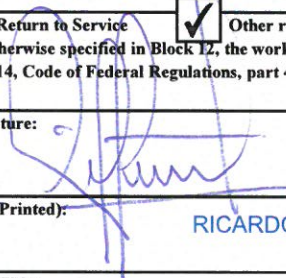
Mixed Cycle Usage PW4060/4062/4156/4158/4164/4168, see LLP BTB Trace for details

THE INFORMATION CONTAINED HEREIN HAS BEEN OBTAINED FROM SOURCES (PREVIOUS OWNERS, OPERATORS AND/OR REPAIR AGENCIES), WHICH WE BELIEVE TO BE RELIABLE. THE INSTALLER OF THESE PARTS HAS THE ULTIMATE RESPONSIBILITY FOR USE OF THIS INFORMATION.

REVIEWED BY: Ruben Hernandez
Technical Representative

DATE: May 28, 2020

Last Engine Release Certificate
ESN 723884

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 1552	
4. Organization Name and Address:					5. Work Order/Contract/Invoice Number: F19195	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	ENGINE	PW4460-3	1	723884	INSPECTED	
12. Remarks: A complete description of work performed is on file at the above referenced organization under the work order and system tracking reference number indicated in blocks 3 and 5. Pratt & Whitney Engine with serial No. 723884 was Inspected per MD-11 Aircraft Maintenance Manual (AMM) Rev # 92 01-JUL-2019 Engine received a limited scope of work as follows: 1. Performed Engine replacement test (untested engine) Adjustment test 11 in reference with 71-02-11 of the cited AMM. 2. Performed Engine Borescope inspection in reference with 72-00-00 of the cited AMM.						
NOTE: ENGINE TOTAL TIME AND CYCLES FURNISHED BY CUSTOMER <i>ions by</i> TOTAL TIME: 55,872 <i>Aviation</i> TOTAL CYCLES: 13,698						
AeroTech Ops certifies that the work specified in Blocks 11 and 12 was performed in accordance with EASA Implementation Rule Part-145 Approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA approval number 145.6642						
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. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> 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.:
						9EZR432C
13d. Name (Typed or Printed):		13e. Date (dd/mmm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):
				RICARDO PEREZ		02-NOV-2019
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.						

2.
AUTHORIZED RELEASE CERTIFICATE

1. Approving Civil Aviation Authority/Country: FAA/United States		3. Form Tracking Number: 1552 <div style="text-align: right; border: 1px solid black; border-radius: 50%; padding: 2px; width: 30px; float: right;"> AEROTECH 004 NSP </div>												
4. Organization Name and Address:		5. Work Order/Contract/Invoice Number: F19195												
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">6. Item:</th> <th style="width: 25%;">7. Description:</th> <th style="width: 20%;">8. Part Number:</th> <th style="width: 10%;">9. Quantity:</th> <th style="width: 35%;">10. Serial Number:</th> <th style="width: 20%;">11. Status/Work:</th> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">ENGINE</td> <td style="text-align: center;">PW4460-3</td> <td style="text-align: center;">1</td> <td style="text-align: center;">723884</td> <td style="text-align: center;">INSPECTED</td> </tr> </table>	6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	1	ENGINE	PW4460-3	1	723884	INSPECTED		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:									
1	ENGINE	PW4460-3	1	723884	INSPECTED									

12. Remarks:
 A complete description of work performed is on file at the above referenced organization under the work order and system tracking reference number indicated in blocks 3 and 5. Pratt & Whitney Engine with serial No. 723884 was Inspected per MD-11 Aircraft Maintenance Manual (AMM) Rev # 92 01-JUL-2019

Engine received a limited scope of work as follows:

1. Performed Engine replacement test (untested engine) Adjustment test 11 in reference with 71-02-11 of the cited AMM.
2. Performed Engine Borescope inspection in reference with 72-00-00 of the cited AMM.

NOTE: ENGINE TOTAL TIME AND CYCLES FURNISHED BY CUSTOMER **TOTAL TIME: 55,872** **TOTAL CYCLES: 13,698**

AeroTech Ops certifies that the work specified in Blocks 11 and 12 was performed in accordance with EASA Implementation Rule Part-145 Approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA approval number 145.6642

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.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> 14a. <input checked="" type="checkbox"/> 4 CFR 43.9 Return to Service 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. </td> <td style="width: 50%; vertical-align: top;"> Other regulation specified in Block 12 </td> </tr> </table>	14a. <input checked="" type="checkbox"/> 4 CFR 43.9 Return to Service 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.	Other regulation specified in Block 12
14a. <input checked="" type="checkbox"/> 4 CFR 43.9 Return to Service 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.	Other regulation specified in Block 12		
13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature: 	14c. Approval/Certificate No.: 9EZR432C
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): RICARDO PEREZ	14e. Date (dd/mmm/yyyy): 02-NOV-2019

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.

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 1548	
4. Organization Name and Address:					5. Work Order/Contract/Invoice Number: S19013	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	ENGINE	PW4460-3	1	723884	REPAIRED	
12. Remarks:						
<p>A complete description of work performed is on file at the above referenced organization under the work order and system tracking reference number indicated in blocks 3 and 5. Pratt & Whitney Engine with serial No. 723884 was repaired per PW4000 Engine Shop Manual (ESM) Rev # 15-JAN-2019</p> <p>Engine received a limited scope of work as follows:</p> <ol style="list-style-type: none"> 1. Replaced engine core module using ESN 733734 in reference with 72-00-32 of the cited manual. 2. Accomplished customer provided "C" check task cards in reference to the cited manual. 3. Performed an Ultrasonic Inspection (USI) of the HPC 10th stage disk for cracks per A.D. 2016-08-09 and SB PW4000 series A72-833. 4. Accomplished Engine Preservation for more than 60 days (Method II) in reference with 72-00-00-610-005 of the cited manual. 5. Performed Engine Borescope inspection in reference with 72-00-00. <p>NOTE: OPERATOR TO ACCOMPLISH ALL AMM TASKS ASSOCIATED WITH THE MAINTENANCE ACCOMPLISHED INCLUDING TASKS LISTED IN ATOPS CARRY FORWARD ITEMS FORM QC-114 PRIOR TO ENGINE</p> <p>NOTE: ENGINE TOTAL TIME AND CYCLES FURNISHED BY CUSTOMER TOTAL TIME: 55,872 Aviation TOTAL CYCLES: 13,698</p> <p>*AeroTech Ops certifies that the work specified in Blocks 11 and 12 was performed in accordance with EASA Implementation Rule Part-145 Approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA approval number 145.6642*</p>						
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. <input checked="" type="checkbox"/> 4 CFR 43.9 Return to Service 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.		14b. <input checked="" type="checkbox"/> Other regulation specified in Block 12		
13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.: 9EZR432C			
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): RICARDO PEREZ	14e. Date (dd/mmm/yyyy): 22-OCT-2019			
User/Installer Responsibilities						
<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. 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.</p>						

Airworthiness Directive Status for PW4460

STATUS R: Repeated T: Terminated N/A: Not Applicable O: Open S: Superseded

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

FAA AD Number	EASA AD Number	Status	Description	Reference - SB - SL	Method of Compliance	Last Compliance		Next Due	Interval	Remarks
						Date	Hrs / Cycles			
90-22-02	-	N/A	LPT shaft - Eddy Current inspection	PW4ENG 72-328	N/A	-	-	N/A	-	N/A to Engine S/N
94-13-07	-	N/A	Inspection AFT Engine mount link assembly	MD-11 A71-59	N/A	-	-	N/A	-	N/A to S/N
95-11-13	-	N/A	AFT Mount Beam Assembly	-	N/A	-	-	N/A	-	Superseded by AD 96-01-02
96-01-02	-	PWC	AFT Mount Beam Assembly	MD11-71A073	N/A	UNK	UNK	N/A	-	Previously Incorporated
98-19-03	-	N/A	2nd stage high pressure turbine (HPT) rotating airseals, P/Ns 50L156 or 50L195	PW4ENG A72-628	N/A	-	-	N/A	-	N/A to P/N installed
98-23-08	-	N/A	High Pressure Compressor Blade Tips	PW4ENG 72-484	N/A	-	-	N/A	-	N/A to Engine Model
99-08-15	-	N/A	Critical LLP Inspections - Fan Hub	-	N/A	-	-	N/A	-	Superseded by AD 2000-12-02
99-15-01	-	N/A	Low Pressure Turbine Disks	PW4ENG 72-657	N/A	-	-	N/A	-	N/A to S/N installed
99-17-16	-	N/A	Prevent High Pressure Compressor Surge	-	N/A	-	-	N/A	-	Superseded by AD 2001-25-11
2000-12-02	-	N/A	Prevent critical LLP Rotating Part Failure	-	N/A	-	-	N/A	-	Superseded by AD 2002-03-08
2000-22-01	-	N/A	Prevent a multiple engine power Loss due to HPC surges	-	N/A	-	-	N/A	-	Superseded by AD 2001-15-12
2000-25-06	-	N/A	Prevent LPT 4th stage Air Seal fracture	-	N/A	-	-	N/A	-	Superseded by AD 2001-05-07
2001-05-07	-	N/A	Low Pressure Turbine (LPT) 4th Stage Air Seal	PW4 ENG 72-657	N/A	-	-	N/A	-	N/A to P/N installed
2001-08-52	-	N/A	Prevent Dual-Engine surge event during take-off	-	N/A	-	-	N/A	-	Superseded by AD 2001-09-07
2001-09-07	-	N/A	Prevent Multi-Eng Power losses due to HPC surge	-	N/A	-	-	N/A	-	Superseded by AD 2001-15-12
2001-15-12	-	N/A	Prevent Multi-Eng Power losses due to HPC surge	-	N/A	-	-	N/A	-	Superseded by AD 2001-25-11
2001-20-13	-	N/A	Prevent failure of the high pressure compressor (HPC) front drum rotor from cracks	-	N/A	-	-	N/A	-	Superseded by AD 2002-12-15
2001-25-11	-	N/A	Prevent Multi-Eng Power losses due to HPC surge	-	N/A	-	-	N/A	-	Superseded by AD 2002-21-10
2002-03-08	-	N/A	Prevent critical LLP rotating engine part failure	-	N/A	-	-	N/A	-	Superseded by AD 2005-25-09
2002-12-15	-	R	Prevent failure of the high pressure compressor (HPC) front drum rotor from cracks	PW4ENG A72-722 R1	Inspection	6/11/2013	8943 FC	11143 FC	2200 FC	EO 7200-15531
2002-14-10	-	PWC	Prevent arcing of the integrated drive generator (IDG) wire harness	MD11-71A086 PW4MD11 71-107	Approved AMOC	15/5/1998	-	N/A	-	Approved FAA AMOC dated Sep 13, 2012 UPS EO 7150-48678-C

Airworthiness Directive Status for PW4460

STATUS R: Repeated T: Terminated N/A: Not Applicable O: Open S: Superseded

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

FAA AD Number	EASA AD Number	Status	Description	Reference - SB - SL	Method of Compliance	Last Compliance		Next Due	Interval	Remarks
						Date	Hrs / Cycles			
2002-14-10	-	PWC	Prevent arcing of the integrated drive generator (IDG) wire harness	MD11-71A086 PW4MD11 71-107	Approved AMOC	15/5/1998	-	N/A	-	Approved FAA AMOC dated Jan 06, 2003
2002-21-10	-	N/A	Prevent engine takeoff power losses due to high-pressure-compressor (HPC) surges	-	N/A	-	-	N/A	-	Superseded by AD 2003-11-18
2003-09-02	-	N/A	Prevent engine power loss during takeoff due to high pressure compressor (HPC) surge.	PW4G100-A72-170 R3	N/A	-	-	N/A	-	N/A to Engine Model
2003-11-18	-	N/A	Prevent engine takeoff power losses due to high-pressure-compressor (HPC) surges	PW4ENG 72-514	N/A	-	-	N/A	-	Superseded by AD 2003-19-15
2003-19-15	-	PCW	High-Pressure-Compressor (HPC) Surges	SB 72-757 R4		5/30/2006	31792:23 / 5701	N/A	-	Previously Incorporated during P&W Shop Visit
2005-02-06	-	PCW	Replace the existing hose assembly, part number (P/N) 113286	MD11-79A008 PW4MD11 A79-9	N/A	7/4/2003	UNK	N/A	-	Previously Incorporated PW4MD11 A79-9 UPS EO 7920-16252-C
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) HPC 5TH Disk	CIR Manual 72-35-06	Inspection	6/11/2013	7806 TPC	See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) HPC Front Drum	CIR Manual 72-35-07	Inspection	6/11/2013	9800 TPC	See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) HPC Rear Drum	CIR Manual 72-35-10	Inspection	6/11/2013	7498 TPC	See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	N/A	Engine manufacturer's time limits section (TLS) HPC Rear Drum	72-35-08	Inspection					N/A to configuration
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) HUB Front Compressor	CIR Manual 72-31-07	Inspection	6/11/2013	8389 TPC	See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) HUB Turbine Rear Stg 2	CIR Manual 72-52-06	Inspection	5/30/2006	6882 TPC	See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) HUB Turbine Stg 1	CIR Manual 72-52-05	Inspection	6/11/2013	5172 TPC	See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) LPT 3rd Stg Disk	CIR Manual 72-53-13	Inspection			See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) LPT 4th Stg Disk	CIR Manual 72-53-14	Inspection			See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) LPT 5th Stg Disk	CIR Manual 72-53-15	Inspection			See remarks	See remarks	At the next piece-part exposure
2005-25-09	-	R	Engine manufacturer's time limits section (TLS) LPT 6th Stg Disk	CIR Manual 72-53-16	Inspection			See remarks	See remarks	At the next piece-part exposure
2007-07-04	-	R	Detect and correct fatigue cracking of certain principal structural elements (PSEs)	Boeing MD-11 ALI, Report MDC-K5225 R11	P/N: 221-0263-503 S/N: 012	5/15/2013	44886:41 / 8074	See remarks	See remarks	ALI Inspection accomplished per UPS EO 4000-7200-13843 Rev. T on front and rear Engine Mounts
				Boeing MD-11 ALI, Report MDC-K5225 R11	P/N: 221-4086-19 S/N: 012	5/3/2013	47176:41 / 8501	See remarks	See remarks	
2008-24-13	-	PCW	Electronic engine controls (EECs). Para. F	SB A73-214 R2	Inspection	5/7/2008	UNK	-	-	EO 4000-7320-28749-B

Airworthiness Directive Status for PW4460

STATUS R: Repeated T: Terminated N/A: Not Applicable O: Open S: Superseded

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

FAA AD Number	EASA AD Number	Status	Description	Reference - SB - SL	Method of Compliance	Last Compliance		Next Due	Interval	Remarks
						Date	Hrs / Cycles			
2008-24-13	-	PCW	Electronic engine controls (EECs). Para. H	PW4ENG 73-216	Repair	3/9/2010	UNK	-	-	Hamilton Sundstrand SB EEC 131-1-73-59 (EO-C-7320-16955-D is Previously complied SB EEC 131-73-41 is Previously complied
2010-18-13	-	N/A	Prevent failure of the HPC drum rotor disk assembly	PW4ENG 72-816	N/A	-	-	N/A	-	Superseded by AD 2012-18-17
2010-24-09	-	PCW	No. 3 bearing oil pressure tubes, P/Ns 51J041-01, 50J604-01, or P/N 50J924-01, installed	Repair Manual PN 51A357, 72-41-20 or PN 51A750, 72-41-20	Inspection	6/11/2013	UNK	-	-	One time visual inspection Replaced with new tube P/N: 51J041-01
2010-24-14	-	R	Prevent failure of the HPC 10th stage disk	SB 72-799 R1	BSI or FPI	6/11/2013	8943 FC	16143 FC	7200 FC	EO 7230-40853 AMOC-SB Approved AMOC
2011-25-09	-	O	Removal of Stage 1 HPT Airseals P/N 50L879	-	Replacement	-	-	13098 FC	13900 FC for this LLP	
2011-25-09	-	O	Removal of Stage 2 HPT Airseals P/N 53L030	-	Replacement	-	-	17571 FC	13800 FC for this LLP	
2011-25-09	-	O	Removal of Stage 1 HPT Airseal Ring P/N 50L664	-	Replacement	-	-	20755 FC	14800 FC for this LLP	
2012-04-04	-	T	Fuel metering units (FMUs). P/Ns 53T335 (HS 801000-1), 55T423 (HS 801000-2), or 50U150 (HS 801000-3) installed	Hamilton Sundstrand ASB No. JFC131-2-73-A24 R1	Modification	3/14/2013	UNK	-	-	SB 73-A24 R1 is Previously complied by Hamilton Sundstrand Repair
2012-06-18	-	PCW	No. 4 bearing compartment oil pressure and scavenge tubes. Para. G.	PW4ENG79-76	Modification	1/3/2003	UNK	-	-	SB PW4ENG79-76 is Previously complied SB PW4ENG-72-472 is not applicable by SB Effectivity
2012-14-09	-	O	3rd and 4th stage vane fractures. Para. E-1	-	Replacement	-	-	See remarks	See remarks	At the next LPT overhaul, Remove LPT 4th stage vanes that have a P/N listed in Table 1 to para (e) of this AD
2012-14-09	-	O	3rd and 4th stage vane fractures. Para. E-2	-	Replacement	-	-	See remarks	See remarks	At the next HPT overhaul, re-assemble the 2nd stage HPT rotor blades by alternating heavy blades next to light blades and balancing blades of similar weights 180 degrees across the rotor.
2012-16-01	-	N/A	High-pressure turbine (HPT) stage 1 front hubs	-	N/A	-	-	N/A	-	N/A by SB Effectivity
2012-18-03	-	N/A	1st Stg HPT Seal support. P/N 55K601. Para E-1	-	Replacement	-	-	N/A	-	N/A to P/N installed
2012-18-03	-	PCW	1st Stg HPT Airseal ring P/N 50L664. FPI. Para E-2	-	Inspection	6/11/2013	45937:37 / 8943	See remarks	See remarks	Complied with - 1st stage brush seal Assembly Replaced and FP1 of HPT 1st stage airseal
2012-18-17	-	R	HPC drum rotor disk assembly. Para F HPC 13TH, 14TH & 15TH blades	PW4ENG SB 72-796	Inspection	6/11/2013	7948 TPC	See remarks	See remarks	Inspect whenever any of the HPC 13th, 14th, or 15th stage blades are removed during a shop visit.
2012-18-17	-	O	HPC drum rotor disk assembly. Para G	PW4ENG SB 72-816 R1	Replacement	-	-	See remarks	See remarks	Replacement of 13th, 14th, and 15th HPC Seals At the next piece-part exposure of the HPC drum rotor disk
2012-22-16	-	O	3rd stage LPT duct segments P/Ns 50N095; 50N095-001; 50N235; 50N235-001; 50N494-01; 50N494-001; 50N495-01; or 50N495-001, installed	-	Replacement	-	-	See remarks	See remarks	At the next piece-part exposure after the effective date of this AD, remove from service 3rd stage LPT duct segments affected

Airworthiness Directive Status for PW4460

STATUS R: Repeated T: Terminated N/A: Not Applicable O: Open S: Superseded

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

FAA AD Number	EASA AD Number	Status	Description	Reference - SB - SL	Method of Compliance	Last Compliance		Next Due	Interval	Remarks
						Date	Hrs / Cycles			
2015-22-03	-	O	Prevent failure of the LPT 4th stage IAS	-	Replacement	-	-	See remarks	See remarks	At the next LPT overhaul remove from service the LPT 4th stage IAS, P/N 51N038
2016-08-09	-	O	HPC 10th stage disk	PW4ENG A72-833	Inspection	-	-	See remarks	See remarks	Inspect whenever the HPT or LPT is removed from the engine, perform an ultrasonic inspection
2018-13-02	-	N/A	Prevent failure of the 4th stage LPT air seal P/N 50N346	PW4ENG A72-830	N/A	-	-	N/A	-	N/A to P/N installed

The information contained herein has been obtained from sources (Previous owners, operators and/or repair agencies), which we believe to be reliable.
The installer of these parts has the ultimate responsibility for use of this information.

Technical Representative

Date: 28-Oct-19 Rev.00

DATE:

Service Bulletin Status for PW4460

N/A: Not Applicable CW: Complied With PCW: Previously Complied With PROD: At Production

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

SB Number	Revision No.	AD Number (If applicable)	Description	Component	Accomplishment	Remarks
PW4ENG-72-375	04	N/A	AIR COLLED PMA MODIFICATION	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-460	04	N/A	GBX FRONT AND REAR HYDRAULIC PUMPS SEAL OPTION	MAIN GEARBOX	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-463	06	N/A	MODIFICATION OF MB-17/18 OIL PUMP BEARING	MAIN GEARBOX		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-491	06	N/A	MODIFICATION OF MB-11 DEOILER BEARING	MAIN GEARBOX		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-501	02	N/A	MODIFY ANGLE GEARBOX BRACKET ON INTERNEDIATE CASE TO ELIMINATE INTERFERENCE	ENGINE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-523	03	N/A	IMPROVED AB-2, AB-3 AND AB-4 BEARINGS	ANGLE GEARBOX	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-525	09	N/A	DUAL OIL FILTER CONFIGURATION; USE OIL FILTER POST SB 79-89	ENGINE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-584	03	N/A	IMPROVED AB-1 BALL BEARING	ANGLE GEARBOX		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-670	03	N/A	HOSE REPLACEMENT TO IMPROVE DURABILITY; LP01 AND LP03 ONLY	ENGINE	6/11/2013	PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-746	00	N/A	HOSE (CP11) AND (CR13), HOSE AND TUBE (LP03), REPLACEMENT OF TO IMPROVE DURABILITY	ENGINE		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-784	01	N/A	VERIFY LP09 SUPPORT BRACKETS	ENGINE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-799	02	2010-24-14	ACCOMPLISH INSPECTION FOR CRACKS ON THE HPC 10TH STAGE DISK ANTI-VORTEX TUBE SHELD REQUIRED WHEN LPT IS REMOVED	ENGINE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-73-118	04	N/A	MODIFICATION OF W3 AND W5 WIRING HARNESS (UNISON SB 73-26)	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-73-134	01	N/A	HARNESS SS BACKSHELL (UNISON SB 73-27)	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-73-145	05	N/A	MODIFICATION OF W11 WITING HARNESS TO PROVIDE SEPARATE SCU BACKUP POWER CHANNELS TO EEC A & B (UNISON SB 73-30)	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-73-191	01	N/A	MODIFY PMA HOUSING TO ELIMINATE INTERFERENCE WITH GEARBOX	MAIN GEARBOX		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-73-192	00	N/A	W5/W6 HARNESS CONNECTOR COOLING	ENGINE FUEL AND CONTROL		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-73-148	03	N/A	WIRING HARNESS, ELECTRONIC ENGINE CONTROL, W4 AND W5 - INCORPORATION OF CHAFE PROTECTION IN THE FUEL METERING UNIT BACKSHELLS	ENGINE FUEL AND CONTROL		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-73-160	03	N/A	W5/W6 J12 CONNECTOR	ENGINE FUEL AND CONTROL		PCW as detailed in the SB List from UPS dated June11, 2013.

Service Bulletin Status for PW4460

N/A: Not Applicable CW: Complied With PCW: Previously Complied With PROD: At Production

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

SB Number	Revision No.	AD Number (If applicable)	Description	Component	Accomplishment	Remarks
PW4ENG-73-167	02	N/A	FUEL LINE THRUST WIRE AND OIL RING	ENGINE FUEL AND CONTROL		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-73-174	00	N/A	MODIFICATION OF W6 HARNESS TO REMOVE GROUNDING PIGTAILS (UNISON 420081-73-46)	ENGINE FUEL AND CONTROL		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-75-144	00	N/A	VALVE, TWO POSITION, NUMBER 3 COMPARTMENT BREATHER VALVE AND SENSING TUBE	AIR		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-75-147	01	N/A	VALVE, TURBINE VANE AND BLADE COOLING AIR (TVBCA) - REPLACEMENT	AIR		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-77-19	00	N/A	REMOVE N1 BRG VIBRATION INDICATION	ENGINE INDICATING		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-77-20	00	N/A	BOX AND CABLE ASSEMBLY, THEMOCOUPLE - REPLACEMENT	ENGINE INDICATING		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-79-88	01	N/A	REPLACEMENT OF MAGNETIC CHIP COLLECTOR	MAIN GEARBOX	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-79-89	00	N/A	FILTER, OIL, 65 MICRON PRIMARY/150 MICRON SECONDARY, INCREASED CAPACITY DUAL - INTRODUCTION	OIL	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-79-92	00	N/A	PACKING, OIL TANK FILLER NECK FLAPPER VALVE - INTRODUCTION OF A NEW PACKING THAT IS MORE RESISTANT TO SWELLING	OIL	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4MD11 A79-9	01	2005-02-06	REPLACEMENT OF OIL PRESSURE TRANSMITTER HOSE ASSEMBLY (UPS EO 4000-7920-16252)	ENGINE		PCW. Verified by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-767	02	N/A	INSPECTION OF INTERMEDIATE CASE STRUT FAIRINGS (UPS EO 4000-7230-20243)	ENGINE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
MAN-PW4000-1-00			LUBRICATION OF THE 1ST STAGE LOW PRESSURE COMPRESSOR (LPC) BLADE ASSEMBLY (FAN BLADE ROOT)	ENGINE		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-679	03	N/A	CASE ASSEMBLY, HIGH PRESSURE COMPRESSOR (HPC), FRONT - MODIFICATION OF TO INCORPORATE CERAMIC THERMAL BARRIER COATING AT THE 5TH STAGE	HPC		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-703	00	N/A	BLADES HIGH PRESSURE COMPRESSOR 9TH, 10TH, 11TH, 12TH, 13TH, 14TH, 15TH STAGE - MAKE A MODIFICATION OF PLATFORM WIDTHS	HPC		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-705	00	N/A	IMPROVED 5TH STAGE BLADE ROOT COATING	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-708	00	N/A	WASHERS, KEY - REPLACEMENT OF AP5 AND AP7 HIGH PRESSURE COMPRESSOR (HPC) OUTER BORESCOPE PLUG KEY WASHERS WITH NEW LOCK TAB KEY WASHERS	HPC		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-712	02	N/A	INCORPORATION OF 1ST STAGE BLADES WITH LONGER LENGTHS	HPT		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-713	00	N/A	REPLACE HPC VSV LINKAGE BOLTS AND NUTS	HPC		PCW as detailed in the SB List from UPS dated June11, 2013.

Service Bulletin Status for PW4460

N/A: Not Applicable CW: Complied With PCW: Previously Complied With PROD: At Production

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

SB Number	Revision No.	AD Number (If applicable)	Description	Component	Accomplishment	Remarks
PW4ENG-72-721	03	2012-18-03	REPLACEMENT OF 1ST STAGE SEAL AND SUPPORT ASSEMBLY	TURBINE NOZZLE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-722	01	2002-12-15	6-7 STAGE KNIFE EDGE SPACER BORESCOPE INSPECTION (UPS EO 4000-7200-15531 AND ESA AMOC'S CONTAINED IN EO)	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-724	00	N/A	INSPECTION OF 1ST STAGE AIRSEAL FOR SHARP RADIUS AND CRACKS; ONLY APPLICABLE TO AIR SEAL P/N 50L485 OR 50L879	HPT	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-736	01	N/A	FPI 1ST AND 2ND STAGE HUBS AND OUTER AIRSEAL FOR CRACKS	HPT	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-745	02	N/A	DISK, SIXTH STAGE HIGH PRESSURE COMPRESSOR (HPC) - BORESCOPE INSPECTION OF THE DISK DOVETAIL LUGS	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01. UPS EO 4000-7200-17988)
PW4ENG-72-748	02	N/A	INCREASED TORQUE ON NO. 2 BEARING OUTER RACE RETAINING NUT	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-757	05	2003-19-15	ROTOR & STATOR MODULE, HIGH PRESSURE COMPRESSOR (HPC) - MODIFICATION OF TO INCORPORATE A RING CASE CONFIGURATION (RCC) REAR HPC; MCDONNELL DOUGLAS CONFIGURATION	HPC		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-760	00	N/A	WASHER, THRUST BEARING - REPLACE WITH A MORE DURABLE WASHER	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-763	01	N/A	PWA 1480 2ND STAGE BLADES WITH PWA 36330 UNDER PLATFORM COATING; REQUIRED IF PWA 1480 BLADES INSTALLED	HPT	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-764	00	N/A	SPACER, HIGH PRESSURE COMPRESSOR (HPC) - INTRODUCTION OF A NEW MATERIAL SPACER FOR ENGINES WITH THE RING CASE CONFIGURATION HPC	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-774	00	N/A	REPLACE 1.5 & 2 BEARING CARBON SEAL ELEMENTS	INTERMEDIATE CASE		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-777	00	N/A	INSTALLS IMPROVED TOWER-SHAFT BEARING IN 1.5 BEARING SUPPORT	INTERMEDIATE CASE		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-779	00	N/A	INSTALLS ALTERNATE 1.5 BRG SUPPORT ASSEMBLY	INTERMEDIATE CASE		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-789	00	N/A	INSPECT 1.5 BEARING SUPPORT SERIAL NUMBERS FOR DUPLICATE MARKINGS	INTERMEDIATE CASE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01.
PW4ENG-72-730	01	N/A	DUCT ASSEMBLY, HIGH PRESSURE TURBINE (HPT), 1ST STAGE COOLING - INSPECTION AND MODIFICATION OF THE VANE CAVITIES	ENGINE		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-709	03	N/A	TUBE ASSEMBLY, OIL PRESSURE, ANGLE GEARBOX - IMPROVED CLAMPING	OIL		PCW by UPS Job # E733734-01 on May 24, 2006
PWMD11 29-6	01	93-05-20	REVISE WIRING TO THE ENGINE DRIVEN HYDRAULIC PUMP (MD11 SB 29-16)	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PWMD11 71-118	00	N/A	REPLACEMENT OF IDG AND HYD HEAT SHIELD SUPPORT TUBE	MAIN GEARBOX		PCW by UPS Job # E733734-01 on May 24, 2006
PW4ENG-72-611			BEARING OPTION, NO. 3 ROLLER - REPLACEMENT OF WITH A NO. 3 ROLLER BEARING	ENGINE		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-613	00	N/A	REPLACEMENT OF THE LPT BORESCOPE PLUG	LPT		PCW as detailed in the SB List from UPS dated June11, 2013.

Service Bulletin Status for PW4460

N/A: Not Applicable CW: Complied With PCW: Previously Complied With PROD: At Production

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

SB Number	Revision No.	AD Number (If applicable)	Description	Component	Accomplishment	Remarks
PW4ENG-72-661	00	N/A	BEARING, NO. 1 - REPLACEMENT	ENGINE		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-691	02	N/A	1ST STAGE VANE OUTER PLATFORM COOLING	TURBINE NOZZLE	6/11/2013	Accomplished by UPS EO 4000-7310-22780
PW4ENG-72-707	02	2001-05-07 99-15-01	MODIFICATION OF 4TH STAGE INNER AIRSEAL; AD 2001-05-07 ONLY APPLICABLE TO P/N 50N478	LPT		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-771	01	N/A	MODIFIED NO. 3 BEARING COMPARTMENT SEALING TO REDUCE COKING	DIFFUSER / COMBUSTER		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-773	00	N/A	HOSE (CP11 AND CR13), HOSE AND TUBE ASSEMBLIES (LP01 AND LP03) - INSPECTION FOR DAMAGE	ENGINE		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-775	01	N/A	BEARING, NO. 1 BALL - MODIFICATION	ENGINE		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-790	01	N/A	IMPROVED NO. 3 BEARING SEAL RING MATERIAL	DIFFUSER / COMBUSTER	6/11/2013	Accomplished by UPS EO 4000-7310-22780
PW4ENG-73-141	01	N/A	VALVE, FUEL BYPASS - REPLACEMENT	LPT		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-73-179	01	N/A	HOSE & TUBE ASSEMBLY, FUEL PUMP INLET (FM11) - REPLACEMENT OF TO IMPROVE DURABILITY	ENGINE FUEL AND CONTROL		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-73-205	02	N/A	HOSE AND TUBE ASSEMBLY, FUEL PUMP INLET (FM11) - INSPECTION FOR NONCONFORMING HOSE AND TUBE ASSEMBLIES	ENGINE FUEL AND CONTROL	6/11/2013	Accomplished by UPS EO 4000-7310-22780
PW4ENG-73-220	01	2012-04-04	HOSE AND TUBE ASSEMBLY, FUEL PUMP INLET (FM11) - INSPECTION FOR NONCONFORMING HOSE AND TUBE ASSEMBLIES	ENGINE FUEL AND CONTROL	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-75-51	14		INSPECTION OF EXTERNALS HARDWARE	AIR		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-75-94	03	N/A	IMPROVED IDG AIR/OIL HEAT EXCHANGER OVERRIDE CONTROL SWITCH	AIR		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-75-117			CABLE, TURBINE CASE COOLING (TCC) AIR VALVE CONTROL - REPLACE THE CONTROL CABLE WITH A CABLE THAT HAS INCREASED JAM NUT ADJUSTMENT	AIR		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-75-137	00	N/A	REPLACEMENT OF TCC AIR VALVE ACTUATOR	AIR		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-75-138	02		VALVE, PNEUMATIC RELAY, HIGH PRESSURE COMPRESSOR (HPC) BLEED SOLENOID - REPLACEMENT	AIR		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-75-146			BLEED AIR VALVE - MODIFY VALVE TO REPLACE SEAL ASSEMBLY	AIR		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006

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ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

SB Number	Revision No.	AD Number (If applicable)	Description	Component	Accomplishment	Remarks
PW4ENG-75-151	03	N/A	2.9 BLEED VALVE WELD INSPECTION (Honeywell SB 1115V0700-75-108-0)	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-75-154	00	N/A	REPLACE 2.5 BLEED VALVE ACTUATOR CLEVIS WITH IMPROVED CLEVIS THREADS	ENGINE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-79-76	05	N/A	NO. 4 BEARING OIL TUBE MODIFICATION	TURBINE EXHAUST CASE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-79-91			HOSE AND TUBE, SCAVENGE, NO. 4 (LR05) - INSPECTION FOR VACUUM TESTING MARKING ON "B" NUT	OIL		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-450	07	N/A	REPLACE #3 BEARING NUT DUE TO LOSS OF TORQUE	DIFFUSER / COMBUSTER	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-453	01	N/A	PLUG HOLES IN TEC WITH RIVETS; REQUIRED WHEN HOLES ARE DRILLED TO DRAIN CLEANING FLUIDS	TURBINE EXHAUST CASE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-483	02		SUPPORT ASSEMBLY, COMPRESSOR STATOR CYLINDER - REPLACEMENT WITH SUPPORT ASSEMBLY THAT HAS INCREASED STIFFNESS - AND ATTACHING HARDWARE	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-531	02		MODIFICATION OF MB-16 OIL PUMP BEARING	MAIN GEARBOX	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-534	02		HIGH PRESSURE COMPRESSOR STATOR VANE ACTUATOR SUPPORT BRACKET UPPER MOUNT STUDS AND 5TH STAGE SYNCHRONIZING RING CLEVIS - REPLACEMENT	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-573	01		BEARING OPTION, INLET, 5TH, 6TH, AND 7TH STATOR VANE ACTUATOR (SVA) LINKAGE ROD END - REMOVAL OF A NON LINED BEARING DETAIL	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-576	01	N/A	MODIFICATION OF MB-9/10 IDG BEARING	MAIN GEARBOX	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-601	01	N/A	INCORPORATION OF IGNITER ASSEMBLY	DIFFUSER / COMBUSTER		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-616	00	N/A	INCREASE THE TORQUE ON MB-11 BEARING NUT	MAIN GEARBOX	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-627	02	N/A	HPT HUB INTRODUCE IMPROVED COOLING TO THE NO. 3 BEARING COMPARTMENT FOR THE LPT	DIFFUSER / COMBUSTER		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-630 Part A	01		SUPPORT ASSEMBLY, HIGH PRESSURE COMPRESSOR (HPC) EXIT BRUSH SEAL - MODIFICATION, OR REPLACEMENT	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-636	03	98-19-03	MODIFICATION TO SECOND STAGE VANES AND FIRST STAGE AIR SEALS PREREQUISITE FOR SB 72-637	HPT	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-637	02	98-19-03	HPT 1-2 AIRSEAL	HPT		PCW as detailed in the SB List from UPS dated June11, 2013.

Service Bulletin Status for PW4460

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ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

SB Number	Revision No.	AD Number (If applicable)	Description	Component	Accomplishment	Remarks
PW4ENG-72-648	00	N/A	REPLACEMENT OF METAL SEAL RINGS ON #3 BEARING BREATHER AND SCAVENGE TUBE	DIFFUSER / COMBUSTER	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-652	02	N/A	IMPROVED PISTON RING SEALS	DIFFUSER / COMBUSTER		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-662	02	N/A	REDESIGNED 1ST TURBINE BLADE	HPT		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-664	02	N/A	MODIFICATION OF MB-11 BEARING	MAIN GEARBOX		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-684			SEAL ASSEMBLY, NO. 3 BEARING FRONT - INSPECTION OF SEAL RING HOLDER FOR MICROSHRINKAGE	ENGINE		PCW . Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-696	01	N/A	INSPECT #3 BEARING BREATHER TUBE FOR MFG DEFECT	DIFFUSER / COMBUSTER		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-699	00	N/A	MODIFICATION TO REDUCE STRESS IN THE TT3 BOSS AREA	DIFFUSER / COMBUSTER	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-73-151	01		PUMP, FUEL - INTRODUCTION OF A NEW PUMP HAVING A STRENGTHENED GEAR HOUSING	ENGINE FUEL AND CONTROL		PCW . Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-73-184	01		HARNES ASSEMBLY, W6 - REPLACEMENT	ENGINE FUEL AND CONTROL		PCW . Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
20P78-75-01	-	N/A	GRIMES SERVICE BULLETIN	-	5/30/2006	GRIMES SB. PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4MD11-30-4	01	N/A	MODIFY BRACKET FOR ANTI-ICE VALVE WIRE HARNEDD	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4MD11-71-0116	01	N/A	QEC SERVICE BULLETIN	-	5/30/2006	PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4MD11-71-73	01	N/A	IMPROVED CLAMPING OF IDG FEEDER WIRES TO PREVENT INTERFERENCE	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4MD11-71-112	00	N/A	IMPROVED BACK SHELL ORIENTATION ON HYDRAULIC FILTER MODULE CONNECTORS	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4MD11-75-009	01	N/A	REMOVE THERMATIC ROTOR CONTROL COOLING SYSTEM TUBES PW4MD1175-6 AND PW4MD11 75-007	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4MD11-29-0006	00	N/A	QEC SERVICE BULLETIN	-	UNK	PCW . Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4MD11-71-0084	01	N/A	QEC SERVICE BULLETIN	-	UNK	PCW . Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4MD11-71-107	00	2002-14-10	MODIFY IDG HARNES BRACKET TO ELIMINATE CHAFE LOCATION	ENGINE	5/15/1998	PCW as detailed in the SB List from UPS dated June11, 2013.

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CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

SB Number	Revision No.	AD Number (If applicable)	Description	Component	Accomplishment	Remarks
PW4MD11-A71-0102 Part 2	03	N/A	QEC SERVICE BULLETIN	-	UNK	PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4MD11-73-5	00	N/A	IMPROVED AND LONGER FUEL SUPPLY HOSE	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4MD11-78-75	01	N/A	ENSURE 8TH STAGE CHECK VALVE CLAMPS AE CORRECTLY POSITIONED	ENGINE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4MD11-79A0008	00	N/A	QEC SERVICE BULLETIN	-	UNK	PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PS700-80-4037	02	N/A	HAMILTON SUNSTRAND SERVICE BULLETIN	-	5/30/2006	PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-666	00	N/A	STATOR ASSEMBLY, LOW PRESSURE COMPRESSOR (LPC), 1ST STAGE STATOR AND 4TH STAGE DUCT - REPLACEMENT OF, OR MODIFICATION TO PROVIDE IMPROVED RUBBER AIRSEALS	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-472	05	2012-06-18	MODIFICATION TO STOP COKING IN NO. 4 BEARING COMPARTMENT	TURBINE EXHAUST CASE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-477	00	N/A	SPACER, CLASSIFIED, HIGH PRESSURE COMPRESSOR (HPC), VARIABLE VANE - REPLACEMENT OF WITH UNCLASSIFIED SPACERS	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-701	00	N/A	IMPROVED MAIN OIL FILTER STUDS FOR EARLY SB 72-524	MAIN GEARBOX	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-761	01	N/A	REDESIGNED COMBUSTION CHAMBER GUIDE PLATE	DIFFUSER / COMBUSTER	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-762	02	N/A	INSPECTION OF NO. 3 BEARING OIL SUPPLY TUBE ASSEMBLY	DIFFUSER / COMBUSTER	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-764			SPACER, HIGH PRESSURE COMPRESSOR (HPC) - INTRODUCTION OF A NEW MATERIAL SPACER FOR ENGINES WITH THE RING CASE CONFIGURATION HPC	ENGINE		PCW by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-772	02	N/A	BLADE, FIFTH STAGE HIGH PRESSURE COMPRESSOR (HPC) - BORESCOPE INSPECTION OF THE BLADE ROOT AREA FOR ENGINES THAT HAVE BLADES, PN 58H305 INSTALLED	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01 UPS EO 4000-7200-223343)
PW4ENG-72-776	00	N/A	BEARING, SLEEVE, HIGH PRESSURE COMPRESSOR (HPC) VARIABLE VANE - REPLACE WITH A MORE DURABLE SLEEVE BEARING	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-782	01	N/A	REWORK RADIUS ON 12TH STAGE DISK TO REMOVE STRESS LOCATION IF CRACKS ARE FOUND IN 12TH DISK RADIUS	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-783	01	N/A	REWORK 11TH STAGE HEATSHIELD TO ELIMINATE INTERFERENCE WITH BORESCOPE PLUG PERFORM PART A IF NOT REMOVED PERFORM PART B IF REMOVED	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-796	00	2010-18-13	HPC REAR DRUM FPI INSPECTION OF BLADE LOADING SLOTS (SUPERCEDED BY AD 2012-18-17 EFFECTIVE OCT/22/2012)	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01

Service Bulletin Status for PW4460

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ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

SB Number	Revision No.	AD Number (if applicable)	Description	Component	Accomplishment	Remarks
PW4ENG-72-796	00	2012-18-17	HPC REAR DRUM FPI INSPECTION OF BLADE LOADING SLOTS AND REPLACEMENT OF 13, 14 & 15 HPC SEALS (SUPERCEDED BY AD 2012-18-17 EFFECTIVE OCT/22/2012)	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01 Reference SB 72-816 for replacement of 13, 14 & 15 HPC Seals.
PW4ENG-72-801	01	N/A	HPC 9TH STAGE STATOR REPLACEMENT	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-816	01	2012-18-17	SEAL 13TH, 14TH AND 15TH STAGE HPC - REPLACEMENT	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01 Reference SB 72-796 (Drum FPI Inspection) which is also associated with AD 2012-18-17.
PW4ENG-72-206	04	N/A	MODIFICATION OF MB-19/20 PMA BEARING	MAIN GEARBOX		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-483	02	N/A	SUPPORT ASSEMBLY, COMPRESSOR STATOR CYLINDER - REPLACEMENT WITH SUPPORT ASSEMBLY THAT HAS INCREASED STIFFNESS - AND ATTACHING HARDWARE	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-484	03		BLADES, 9TH THROUGH 15TH STAGE HIGH PRESSURE COMPRESSOR (HPC), FEATURING ALUMINUM OXIDE BLADE TIPS THAT CAN BE GROUND AT ASSEMBLY	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-515	02		DISK, HIGH PRESSURE COMPRESSOR (HPC), FIFTH STAGE - MODIFICATION OF TO REMOVE THE BALANCE FLANGE	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-560	01		DISK, HIGH PRESSURE COMPRESSOR (HPC), FIFTH STAGE - INTRODUCTION OF A LIGHTER WEIGHT DISK WITH NO BALANCE FLANGE	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-561	01		DISK, HIGH PRESSURE COMPRESSOR (HPC), DRUM ROTOR ASSEMBLY - REPLACEMENT OF WITH A LIGHTER WEIGHT CONFIGURATION	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PW4ENG-72-562	03	N/A	REPLACEMENT OF SHAFT AND DRUM ROTOR	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-565	04	N/A	BLADES, 14TH AND 15TH STAGE HIGH PRESSURE COMPRESSOR (HPC) - MODIFICATION TO PROVIDE IMPROVED PLATFORM CLEARANCE AND BLADE LOCKING	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-575	02	N/A	BLADE, 13TH, 14TH AND 15TH STAGE HPC - REPLACEMENT OF WITH BLADES THAT HAVE ZIRCONIUM OXIDE TIPS TO IMPROVE BLADE DURABILITY	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-619	03	N/A	INLET CONE COVER MODIFICATION (UPS EO C-7230-27212)	LOW PRESSURE COMPRESSOR		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-629	00	N/A	INLET CONE REAR SEGMENT	LOW PRESSURE COMPRESSOR		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-641	00	N/A	GIGGLE TUBE PLASMA REPAIR	HPC	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-642	01	N/A	#1 BEARING OIL SEAL MODIFICATION	LOW PRESSURE COMPRESSOR		PCW as detailed in the SB List from UPS dated June11, 2013.

Service Bulletin Status for PW4460

ENGINE MODEL	PW4460-3
SERIAL NUMBER	P723884
TSN	55,872
CSN	13,698
LAST OPERATOR	Sky Lease Cargo (KYE)
EFFECTIVE DATE	9-May-19

N/A: Not Applicable CW: Complied With PCW: Previously Complied With PROD: At Production

SB Number	Revision No.	AD Number (If applicable)	Description	Component	Accomplishment	Remarks
PW4ENG-72-650	00	N/A	EWELD ALIGNMENT PINS TO INNER SHROUD	HPC		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-651	01	N/A	INSTALLATION OF MORE DURABLE 1.6 BLADES	LOW PRESSURE COMPRESSOR		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-653	01	N/A	5TH DISK KNIFE EDGE SEAL REMOVAL	HPC		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-655	04	N/A	FAN BLADE MODIFICATION TO PROVIDE LRGER RADIUS ON THE LEADING EDGE	LOW PRESSURE COMPRESSOR		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-659	02	N/A	IMPROVED 2.5 BLEED VALVE LINKAGE	FAN CASE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-660	03	N/A	IMPROVED 2.5 BLEED VALVE LINKAGE ROLLER CAM FOLLOWER	FAN CASE		PCW as detailed in the SB List from UPS dated June11, 2013.
PW4ENG-72-678	03	N/A	REPLACE SUSPECT 1.5 BEARING SUPPORTS	INTERMEDIATE CASE	6/11/2013	Accomplished by Delta Tech Ops Job # 95792-01
PW4ENG-72-682	00		LOCK AND SETSCREW, HPC BLADE - REPLACEMENT TO EASE REMOVAL AT OVERHAUL	ENGINE		PCW. Verified by Pratt & Whitney Tracking Number E733734-01 on May 30, 2006
PARKER 3830032-79-04	02	N/A	MODIFY FUEL OIL HEAT EXCHANGER DUAL BYPASS VALVE	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.
UNISON SB 73-65	00	N/A	MODIFICATION OF W4 AND W5 WIRING HARNESS	ENGINE		PCW as detailed in the SB List from UPS dated June11, 2013.

The information contained herein has been obtained from sources (Previous owners, operators and/or repair agencies), which we believe to be reliable.
The installer of these parts has the ultimate responsibility for use of this information.

Technical Representative

Date: 28-Oct-19 Rev.00
DATE:

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

LOW PRESSURE COMPRESSOR INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: SERVICEABLE

STAGE-1 FAN BLADES

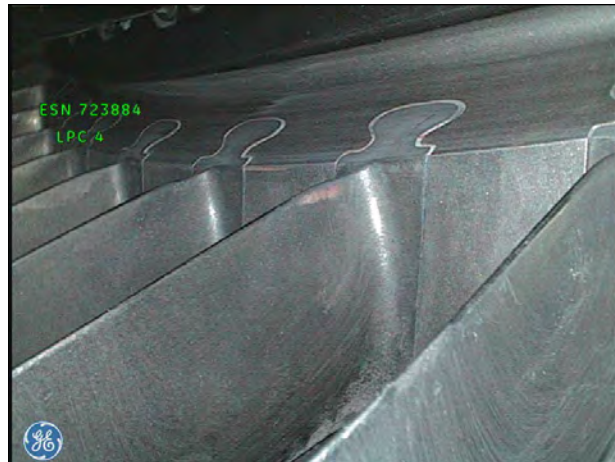
- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-1.6 BLADES

- One blade with minor leading nick in serviceable condition.
- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-4 BLADES

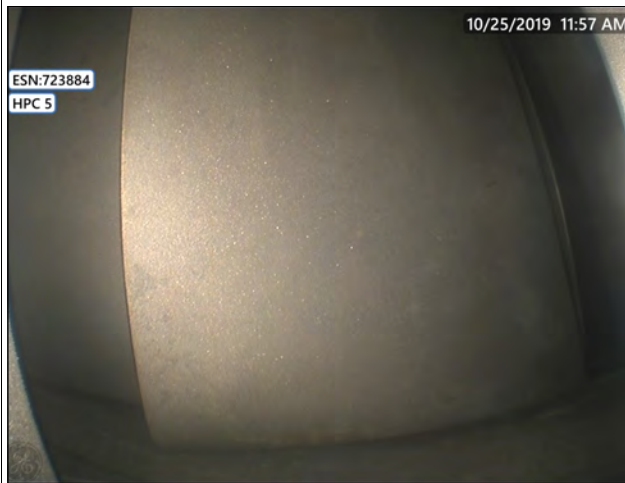
- No unserviceable damage found at the time of inspection.

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

EAT

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

HIGH PRESSURE COMPRESSOR INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: SERVICEABLE

STAGE-5 BLADES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-6 BLADES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-7 BLADES

- No unserviceable damage found at the time of inspection.

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

HIGH PRESSURE COMPRESSOR INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: SERVICEABLE

STAGE-8 BLADES

- One blade with a nick on leading edge depicting small deflection.



CONDITION: SERVICEABLE

STAGE-9 BLADES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-10 BLADES

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

EA

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

HIGH PRESSURE COMPRESSOR INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: SERVICEABLE

STAGE-11 BLADES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-12 BLADES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-13 BLADES

- One blade with a small dent on leading edge measuring less than .050" inches deep.

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

EA

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

HIGH PRESSURE COMPRESSOR INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: SERVICEABLE

STAGE-14 BLADES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-15 BLADES

- No unserviceable damage found at the time of inspection.

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

F
EAS.

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

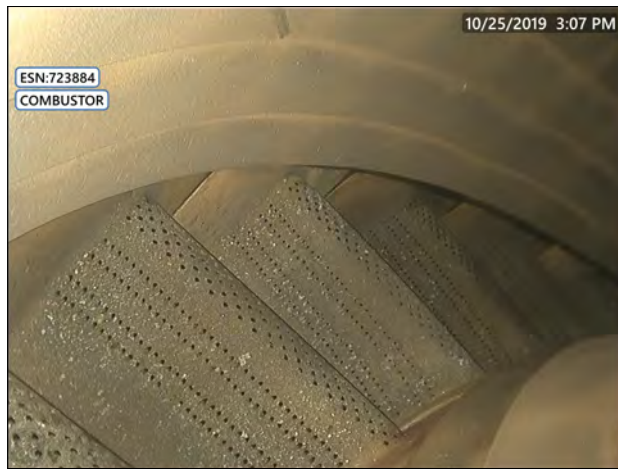
COMBUSTION CHAMBER INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: SERVICEABLE

FUEL NOZZLES

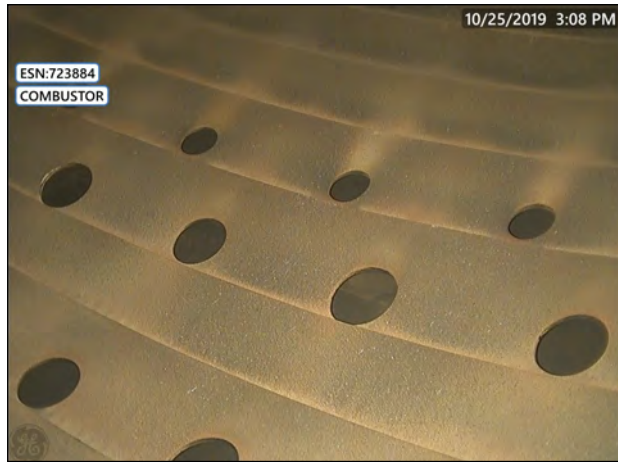
- No unserviceable damage at the time of inspection.



CONDITION: SERVICEABLE

INNER LINERS

- No unserviceable damage at the time of the inspection.
- Evidence of light wear of barrier coating on all chamber louvers.



CONDITION: SERVICEABLE

OUTER LINERS

- No unserviceable damage found at the time of the inspection.

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

EA

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

HIGH PRESSURE TURBINE INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: SERVICEABLE

STAGE-1 NOZZLE GUIDE VANES

- No unserviceable damage found at the time of inspection.
- Several airfoils with visible loss of the thermal barrier coating. No burn holes, no burn through visible at the time of the inspection.



CONDITION: SERVICEABLE

STAGE-1 BLADES

- No unserviceable damage found at the time of inspection.
- Several blades with typical thermal barrier coating spall noted on the leading edge area "A" and "B".



CONDITION: SERVICEABLE

STAGE-1 DUCT SEGMENTS

- No unserviceable damage found at the time of inspection.

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

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CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

HIGH PRESSURE TURBINE INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: INFORMATION

STAGE-2 NOZZLE GUIDE VANES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-2 BLADES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-2 DUCT SEGMENTS

- No unserviceable damage found at the time of inspection.
- Missing of the ceramic coating noted.

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

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1

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

LOW PRESSURE TURBINE INSPECTION. In reference with MD-11 A.M.M. Chapter 72-00-00.



CONDITION: SERVICEABLE

STAGE-3 BLADES NGVs

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-3 BLADES

- No unserviceable damage found at the time of inspection.



CONDITION: SERVICEABLE

STAGE-6 BLADES

- No unserviceable damage found at the time of inspection.

- * Affordable repair solutions
- * Professionalism and customer satisfaction
- * The solution is in your hands

F
EAS

CUSTOMER	ENGINE S/N	ENGINE MODEL	LOCATION	INSPECTED BY:
Sky Lease	P723884	PW4460 (-3)	Miami, Florida	R. VARGAS
WORK ORDER	A/C REG.	A/C MODEL	POSITION	INSPECTION DATE
F19195	N950AR	MD-11 Series	2	2 Nov, 2019

ADDITIONAL PHOTOS



/DVD is submitted on behalf of AeroTech One, Inc. and subject to the condition that it is understood and agreed that



**MD-11
AIRCRAFT MAINTENANCE MANUAL**

MD-11 ENGINE PERFORMANCE TEST (P&W)

ENGINE POSITION: TAIL #2
ENGINE S/N: EOM 723 884

TEST DATE: DEC 30TH, 2019
FUSELAGE NO: 14950AR

	STATIC	MIN IDLE	APPR IDLE	POWER ASSUR	ENG STOP	K E Y	
TAT °C						1	
PO BARO IN/HG						2	
EPR/MPA TARGET		1.01	1.03	1.3		3	
ACCEL TIME				< 7 SEC		4/6	
DECEL TIME				< 7 SEC		5/7	
%N1		25.1	42.9	86.4		3	
EGT °C		349	344	478		3	
%N2		64.1	75.9	92.9		3	
FUEL FLO LB/HR		640	1230	6330		8	
OIL PRES PSI		121	165	258		8	
OIL TEMP °C		120	116	112		8	
OIL QTY QTS						8	
* NAC TEMP °C						9	
EVM N1 UNITS		4.0 MAX				10	
EVM N2 UNITS		4.0 MAX				10	
INSPECT						11	
OTHER	PT2.5:	PT2:	PS41:	PS3:	TT2:	SPECIFIC HUMIDITY:	12

* IF APPLICABLE

CAG(I/GDS)

DB2-71-0786B




**MD-11 Engine Performance Test Record (P&W)
Figure 501/71-02-09-990-901**

C. DEREGT

EFFECTIVITY
YS ALL

71-02-09

Config 2
Page 510
Mar 01/2015

TP-11MM-YS

ENGINE MAXIMUM POWER ASSURANCE DATA AND RECORD SHEET

A

CUSTOMER:	SKYLEASE	TANK	FUEL QUANTITY	ENGINE MODEL	PW4460-3
WORK ORDER:	F19195	NO. 1	6100 KG	ENGINE POSITION	ENGINE S/N
AIRCRAFT REG. NO.	N950AR	NO. 2	6200 KG	NO. 1	N/A
AIRCRAFT MODEL	M011	CENTER	6450 + 15000 AUX	NO. 2	723884
AIRCRAFT S/N	48461	TOTAL FUEL	33950 KG	NO. 3	N/A
DATE	01 NOV 2019	OAT	30 C	NO. 4	N/A
ALTITUDE	11 FEET	BARO PRESS	29.9	PNEU. PRESSURE	CLOSED <input type="checkbox"/>
PMC P/N	N/A	MEC P/N	N/A	VOLT/ FREQ.	OFF <input type="checkbox"/>
EEC - FADEC P/N	791100-6-110	HMU P/N	801000-4	PMC	OFF <input type="checkbox"/>
WIND DIRECTION	SW	WIND VELOCITY	3 MPH		

B

ENGINE START DATA												
ENGINE POS.	START LEVEL ADV.		INITIAL FF	LIGHT TIME (SEC)	STARTER CUT OUT N2%	EGT MAX C-1	MAX FF	TIME TO IDLE (SEC)	OIL			VIBRATION (UNITS)
	N2%	MOT TIME (SEC)							QTY	TEMP	PRESS	
NO. 1	/	/	/	/	/	/	/	/	/	/	/	/
NO. 2	21	70	150	110	45	430	750	25	15	110	126	0.3 / 0.3
NO. 3	/	/	/	/	/	/	/	/	/	/	/	/
NO. 4	/	/	/	/	/	/	/	/	/	/	/	/

C


IDLE SPEED CHECK				
ENGINE POSITION	LOW IDLE		HIGH IDLE	
	TARGET	RECORDED	TARGET	RECORDED
NO. 1	N/A	N/A	N/A	N/A
NO. 2	1.01	1.01	N/A	N/A
NO. 3	N/A	N/A	N/A	N/A
NO. 4	N/A	N/A	N/A	N/A

POWER ASSUR. CHECK (%N1) 80% <input type="checkbox"/> 85% <input checked="" type="checkbox"/> 90% <input type="checkbox"/> TAKE OFF <input type="checkbox"/>								
ENGINE POSITION	TARGET (% N1)	RECORDED VALUES						
		N1	N2	N3	EGT	EPR	FF	VIB
NO. 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NO. 2	1.3	88.1	93.9	N/A	501	1.3	6230	1.1
NO. 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NO. 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

D

HYDRAULICS				ADDITIONAL DATA REQUIREMENTS				
HYD SYS	HYD QTY	HYD SYS PRESS		ENG. POS				
		EMDP	EDP					
A	N/A	N/A	N/A	NO.1				
B	N/A	N/A	N/A	NO. 2				
GREEN		3000	2950	NO. 3				
YELLOW		3000	3050	NO. 4				
BLUE		3000	3000					

E

REMARKS: MPA LIMITS EGT 625	MPA TARGET (EPR) 1.3 EPR	
NEVER EXCEED EGT 650		
OBSERVED BY:	SIGN: 	Date: 01 NOV 2019