

SINGAPORE AIRLINES LIMITED

Page 1 of 1

Rev.No. :

Shop Visit History Report

IIN: Z3312

Serial Number: 1618244923700

Part Number: 3822341-5

Item No	Part No	Part TSN	Part CSN	Part TSO	Part CSO	Part TSR	Part CSR	Fitment/ Removal	Date	Parent Serial Number	Parent TSN	Parent CSN	Visit Remarks
1	3822341-5	0	0	0	0	0	0	FITMENT	17-Oct-2017	P2273	7184	4819	NEW-ARC 9001544725-80005

*** End Of Report ***



Shop Visit History Report

IIN: Z0000

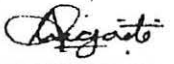
Serial Number: P2273

Part Number: 3800550-1

Item No	Part No	Part TSN	Part CSN	Part TSO	Part CSO	Fitment/ Removal	Date	A/C Regn	Position	TSN	CSN	Visit No.	Visit Remarks
1	3800550-1	0	0	0	0	FITMENT	28-Jun-2013	SWU	APU	0	0	20131009001	
2	3800550-1	7184	4819	7184	4819	REMOVAL	16-Sep-2017	SWU	APU	19991	2377	20171101001	OVERHAUL
3	3800550-1	7184	4819	0	0	FITMENT	17-Oct-2017	-		0	0	20171101001	OVERHAULED BY HONEYWELL W/O 5011527375
4	3800550-1	7186	4825	2	6	REMOVAL	17-Oct-2017	-		2	6	20171101002	DMM HRS/CYCS RELEASED AFTER APU FINAL TESTING
5	3800550-1	7186	4825	2	6	FITMENT	15-Nov-2017	SNB	APU	11340	1341	20171101002	-

*** End Of Report ***



1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 20170003733110Y14 9001544725-80005	
4. Organization Name and Address: Honeywell International Inc. 111 S. 34th Street Phoenix, Arizona 85072		Production Approval PT1222NM		Honeywell International Inc. Units 2-4, Chevron, Eaton Road Hemel Hempstead, HP2 7UB UNITED KINGDOM		5. Work Order/Contract/Invoice Number: 4705219014-000010 Page 1 of 1
6.Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:	
001	IMPELLER, COMPRESSOR, SECOND STAGE	3822341-5	1	1618244923700	NEW	
12. Remarks: AIRWORTHINESS APPROVAL. THIS IMPELLER, COMPRESSOR, SECOND STAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION.						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input 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.: ODA-602216-NM		14b. Authorized Signature:		14c. Approval/Certificate No.:
13d. Name (Typed or Printed): Aggrey Kanyanga		13e. Date (dd/mm/yyyy): 05/OCT/2017		14d. Name (Typed or Printed):		14e. Date(dd/mm/yyyy):

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 Block1, 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 Block1. 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.



LIFE LIMITED PART LOG

PX-3107-76C

GTCP 331-500[B] PERFORMANCE DATA SHEET

NOTIFICATION NUMBER : 330005518		SERVICE ORDER : 5011527375	
APU MODEL : GTCP331-500[B]		PART NUMBER : 3800550-1	
OPERATION TEXT : LAB TEST		MANUAL : EM 49-26-57	
OPERATION NO : 0220		REVISION : 20	
QUANTITY		UNITS	NO LOAD
BAROMETRIC PRESSURE		PSIA	14.59
FUEL INLET PRESSURE		PSIG	25.5
OIL PUMP DISCHARGE PRESSURE		PSIG	64.6
OIL PUMP DISCHARGE TEMPERATURE		°F	160
GEARBOX PRESSURE		PSIA	14.96
COMPRESSOR INLET TEMPERATURE	MEASURED	°F	96.5
APU INLET TEMPERATURE (T2) (ARINC)		°F	101.5
TURBINE DISCHARGE TEMPERATURE (UNIT RAKES)	UPPER (EGT 1)	°F	717.4
	LOWER (EGT 2)	°F	725.3
EXHAUST GAS TOTAL TEMPERATURE (LA)	MEASURED	°F	739.3
	CORRECTED	°F	
ORIFICE INLET AIR PRESSURE		" Hg	
ORIFICE INLET TEMPERATURE		°F	
ORIFICE DELTA PRESSURE		" H ₂ O	
IGV POSITION** (IGVPOS)		DEGREES	
IGV PERFORMANCE ADJ (IGVPERADJ)		DEGREES	
BLEED AIRFLOW	ACTUAL	LBS/MIN	
	CORRECTED	LBS/MIN	
RESTRICTED AIRFLOW (DISC. CORR. FLOW)		LBS/MIN	
BLEED AIR TOTAL PRESSURE	INDICATED	PSIA	
	CORRECTED	PSIA	
BLEED AIR TOTAL TEMPERATURE	INDICATED	°F	
	CORRECTED	°F	
UNIT VIBRATION	ACCESSORY	IN/SEC	
	TURBINE	IN/SEC	
TURBINE WHEEL SPEED		RPM	
SHAFT LOAD	APPLIED	SHp	
	CORRECTED	SHp	
FUEL CONSUMPTION	INDICATED	LBS/HR	
	CORRECTED	LBS/HR	

TEST TECHNICIAN :



Stamp & Sign

DATE :

16-Oct-2017

QUALITY CONTROL :



Stamp & Sign

DATE :

17 OCT 2017

TURBINE ACCEPTANCE TAG AND TRACEABILITY INPUT LIFE LIMITED PARTS RECORD/TRACE INPUT PAGE

PART NO: 3800550-1

SERIAL NO: P-2273

CUSTOMER: SINGAPORE AIRLINES LTD

MODEL: GTCP331-500B

SERIES: 62

DATE: 17-Oct-17

S/O NO: 5011527375

TSN: 7184:03

CSN: 4819

TSR: NA

CSR: NA

NOTIFICATION NO: 330005518

TSO: 0:00

CSO: 0


DESCRIPTION	PART NO	SERIAL NO	LOT NO	TSN	CSN	LIFE LIMITS (CYCLES)	REMARKS
D/COMP IMPELLER	3822612-1	13-182449-08188	-	7184:03	4819	27000	OVERHAULED
1ST STG IMPELLER	3822611-1	13-182449-08502	-	7184:03	4819	27000	OVERHAULED
2ND STG IMPELLER	3822341-5	1618244923700	-	00	00	27000	NEW
1ST T-WHEEL ASSY	3842151-3	12-168522-01537					OVERHAULED
DISK PART NO	3842152-1		-	7184:03	4819	27000	
2ND T-WHEEL ASSY	3842155-4	12-168522-01912					OVERHAULED
DISK PART NO	3842156-1		-	7184:03	4819	27000	
3RD T-WHEEL ASSY	3842160-6	12-156101-09303	-	7184:03	4819	27000	OVERHAULED

APU ACCESSORIES RECORD/NDIC

DESCRIPTION	PART NO.	SERIAL NO.	SERIES	CHG NOS	REMARKS
STARTER CTRL VLV	3283076-5	1578	1	-	REPAIRED
AIR TURB STARTER	3505814-3	1541	1	-	OVERHAULED UNIT TRANSFERRED FROM SINGAPORE AIRLINES LTD APU S/N: P-2290
STARTER MOTOR	2704442-5	1234	2	-	OVERHAULED
FUEL CLUSTER	3879008-1	CUA11725	-	-	VISUAL INSPECTED / TESTED
IGV ACTUATOR	3883499-3	1552	-	-	VISUAL INSPECTED / TESTED
PNEU CLUSTER	3884863-7	P-1525	1	-	REPAIRED
CHECK VALVE	3202854-1	1401	1	-	REPAIRED
SURGE CTRL VALVE	3290814-5	3290814/888	1	-	OVERHAULED
LUBE CLUSTER	4131000-6	1668	2	-	REPAIRED
AIR OIL COOLER	160488-2	1664	2	-	CLEANED & FLUSHED / VISUAL INSPECTED / TESTED
TEMP CTRL VALVE	160536-1	1508	2	-	VISUAL INSPECTED / TESTED
IGNITION UNIT	3876195-9	J17340052	-	-	NEW
IGNITION SYS ASSY	3888275-10	-	-	-	REPAIRED (ALTERNATE OUTGOING S/N: J17340052)
G/BOX ASSY	3805034-11	P-1401	-	-	MODIFIED / REPAIRED
DRIVEN COMP	3804011-10	P-1398	-	-	OVERHAULED
COMP MODULE	3826980-13	P-1394	-	-	OVERHAULED
TURB MODULE	3844517-7	P-1393	-	-	OVERHAULED
OIL LEVEL SENSOR	3876211-3	-	-	-	VISUAL INSPECTED / TESTED (ALTERNATE OUTGOING S/N: 97424-DT1471)
DMM	304643-2	GE12119	1	-	VISUAL INSPECTED

REMARKS: APU HOURS AND CYCLES ARE BASED AT THE POINT OF ASSEMBLY AND OBTAINED FROM THE DMM.

INSPECTOR SIGNATURE & STAMP:





FORM: GTCP331-500B-G16-R.7 (ddmmyy 290615)





Available hours/cycles for APU life limited parts

APU Description : AUXILIARY POWER UNIT
Part Number : 3800550-1 Serial number : P2273 IIN : Z0000
Aircraft Reg : - Position : Date Installed : 17-Oct-2017
TSN / CSN : 7184 / 4819 TSLV / CSLV : 0 / 0
Remarks : OVERHAULED BY HONEYWELL W/O 5011527375

Item No	ATA Chapter	Position	IIN	Part Number	Part Description	Serial Number	TSO# LL(HR)	CSO# LL(CYC)	TSN	CSN	Available Hours	Cycles
1	49-00-00		Z0000	3800550-1	AUXILIARY POWER UNIT	P2273	0	0	7184	4819	NA	NA
2	49-23-00		Z3311	3822611-1	IMPELLER COMPRESSOR 1ST STAGE	13-182449-08502		27000 *	7184	4819		22181
3	49-23-00		Z3312	3822341-5	IMPELLER, COMPRESSOR 2ND STG	1618244923700		27000 *	0	0		27000
4	49-23-00		Z3313	3822612-1	IMPELLER COMPRESSOR LOAD	13-182449-08188		27000 *	7184	4819		22181
5	49-25-00		Z3511	3842151-3	ROTOR ASSEMBLY, 1ST STAGE	12-168522-01537		27000 *	7184	4819		22181
6	49-25-00		Z3512	3842155-4	ROTOR ASSEMBLY, 2ND STAGE	12-168522-01912		27000 *	7184	4819		22181
7	49-25-00		Z3513	3842160-6	ROTOR ASSEMBLY, 3RD STAGE	12-156101-09303		27000 *	7184	4819		22181

*** End Of Report ***



Note : #-TSO/CSO only applicable to Module and Non-Life Limited Parts.

*** - Life Calculation on Revised Life Limit ** - Life Calculation on Soft Life Limit * - Life Calculation on Hard Life Limit

APU shop visit on log report

Part Number : 3800550-1
 IIN : Z0000
 TSN / CSN : 7184 / 4819
 Aircraft Regn : -
 Date fitted : 17-Oct-2017
 Date Removed :

Serial Number : P2273

Position :

TSLV / CSLV : - / -

Owner : SIA

Visit Number : 20171101001

Visit Reason : OVERHAULED BY HONEYWELL W/O 5011527375

Description : AUXILIARY POWER UNIT

TSO / CSO : 0 / 0

Job Number : HW-5011527375

Item No	IIN	ATA Chapter	Part Description	Position	Part No	Serial No	TSN / CSN	TSO / CSO	(SL) Available (HL) Hrs / Cyc	Hrs / Cyc	Remarks
1	Z3311	49-23-00	IMPELLER COMPRESSOR 1ST STAGE		3822611-1	13-182449-08502	7184 / 4819	0 / 0		22181	/
2	Z3312	49-23-00	IMPELLER COMPRESSOR 2ND STG		3822341-5	1618244923700	0 / 0	0 / 0		27000	/
3	Z3313	49-23-00	IMPELLER COMPRESSOR LOAD		3822612-1	13-182449-08188	7184 / 4819	0 / 0		22181	/
4	Z3511	49-25-00	ROTOR ASSEMBLY, 1ST STAGE		3842151-3	12-168522-01537	7184 / 4819	0 / 0		22181	/
5	Z3512	49-25-00	ROTOR ASSEMBLY, 2ND STAGE		3842155-4	12-168522-01912	7184 / 4819	0 / 0		22181	/
6	Z3513	49-25-00	ROTOR ASSEMBLY, 3RD STAGE		3842160-6	12-156101-09303	7184 / 4819	0 / 0		22181	/

(*)- Revised Life Limit

*** End Of Report ***





Available hours/cycles for APU life limited parts

APU Description : AUXILIARY POWER UNIT

Part Number : 3800550-1

Serial number : P2273

IIN : Z0000

Aircraft Reg : SNB

Position : APU

Date Installed : 15-Nov-2017

TSN / CSN : 10878 / 7124

TSLV / CSLV : 3694 / 2305

Remarks : AT REMOVAL DATED 23NOV2019

Item No	ATA Chapter	Position	IIN	Part Number	Part Description	Serial Number	TSO# LL(HR)	CSO# LL(CYC)	TSN	CSN	Available Hours Cycles	
1	49-00-00	APU	Z0000	3800550-1	AUXILIARY POWER UNIT	P2273	3694	2305	10878	7124	NA	NA
2	49-23-00		Z3311	3822611-1	IMPELLER COMPRESSOR 1ST STAGE	13-182449-08502		27000 *	10878	7124		19876
3	49-23-00		Z3312	3822341-5	IMPELLER, COMPRESSOR 2ND STG	1618244923700		27000 *	3694	2305		24695
4	49-23-00		Z3313	3822612-1	IMPELLER COMPRESSOR LOAD	13-182449-08188		27000 *	10878	7124		19876
5	49-25-00		Z3511	3842151-3	ROTOR ASSEMBLY, 1ST STAGE	12-168522-01537		27000 *	10878	7124		19876
6	49-25-00		Z3512	3842155-4	ROTOR ASSEMBLY, 2ND STAGE	12-168522-01912		27000 *	10878	7124		19876
7	49-25-00		Z3513	3842160-6	ROTOR ASSEMBLY, 3RD STAGE	12-156101-09303		27000 *	10878	7124		19876

*** End Of Report ***



Note : #-TSO/CSO only applicable to Module and Non-Life Limited Parts.

*** - Life Calculation on Revised Life Limit ** - Life Calculation on Soft Life Limit * - Life Calculation on Hard Life Limit