

Technical Specification

AIRCRAFT

Aircraft Type	A320-232	TSN 44,319	As Of	31 March 2019
Date of Manufacture	Q1 - 2000	CSN 34,641	FH:C Ratio 2.46*	
			*Since lease inception	

ENGINES

Manufacturer IAE Model V2527-A5

Engine 1

ESN	V106XX	Date LSV	2014	Reason for LSV	Repair
TSN	41,603	TSLSV	12,363	LLP Limiter	2,394
CSN	32,251	CSLSV	7,912	Status as of	15 April 2019

Engine 2

ESN	V106XX	Date LSV	2014	Reason for LSV	Repair
TSN	42,751	TSLSV	15,760	LLP Limiter	5,145
CSN	32,900	CSLSV	10,295	Status as of	15 April 2019

WEIGHTS AND FUEL

Weights	Pounds	Kilograms
Maximum Taxi Weight	170,637	77,400
Maximum Take-Off Weight	169,755	77,000
Maximum Landing Weight	142,199	64,500
Maximum Zero Fuel Weight	134,483	61,000

Fuel	Litres	US Gallons
Standard Fuel Capacity	23,859	6,304

LANDING GEAR

	Nose	LH Wing	RH Wing
Part Number	D23589520-1	201582001-010	201582002-010
Serial Number	B634	M-DG-0679	M-DG-0686
Status as of	31 March 2019	31 March 2019	31 March 2019
Date Last OH	Nov 2011	Nov 2011	Nov 2011
Date Next OH	Nov 2021	Nov 2021	Nov 2021

APU

Manufacturer	Hamilton Sundstrand International S.A		
Type/Model	APS 3200	Serial Number	2983
TSN	8,440 AFH	CSN	21,682 AFC
TSLSV	AFH	CSLSL	AFC
Days Since OH	690	Status as of	31 March 2019

INTERIOR CONFIGURATION

Cabin Configuration	180Y	Cockpit Configuration	EFIS
Cabin Attendant Seats	6	Approach Category	CAT III Dual
Galleys	G1 Modified, G5	Flight Dec Observers	2
Catering Standard	Atlas	Cargo Configuration	Bulk
Lavatories	A, D, E		

Seats	Manufacturer	Part Number	Quantity	Minimum Pitch
Economy	Recaro	3520A	180	28-29 Ins.

EQUIPMENT

ATA	Description	Qty.	Manufacturer	Model/PN
22	Flight Augmentation Computer (FAC)	2	THALES AVIONICS	B397BAM0621
22	Flight Control Unit	1	THALES AVIONICS	C12850AC02
22	Flight Management Guidance Computer	2	THALES AVIONICS	C13042BA04
22	Multipurpose Control and Display Unit	2	Honeywell	4077880-962
23	Audio Control Panel (ACP)	3	TEAM	ACP2788AB04
23	Audio Management Unit (AMU) Includes SELCAL Decoder	1	TEAM	AMU2790CB06
23	CIDS Director	2	KID Systeme GmbH	Z010H000521A
23	ELT	1	Socata	96A2560000000
23	HF Transceiver	1	Rockwell Collins	822-0330-020
23	Radio Management Panel (RMP)	3	Rockwell Collins	899-0850-004
23	SSCVR	1	Honeywell	980-6022-001
23	VHF Transceiver	2	Rockwell Collins	822-1047-030
31	CFDIU	1	THALES AVIONICS	C12860AA02
31	Cockpit Printer	1	Honeywell	8055515-4501
31	Display Management Computer	3	THALES AVIONICS	9615325060
31	EFIS Display Unit	6	THALES AVIONICS	3907130402
31	Flight Warning Computer	2	Airbus	350E053021212
31	SSFDR	1	Honeywell	980-4700-003
34	ADF Receiver	1	Rockwell Collins	822-0299-020
34	ADIRU Air Data & Inertial Reference Unit	3	Northrop Grumman	465020-0303-0316
34	ATC Transponder	2	Rockwell Collins	822-1338-021
34	ATC/TCAS Control Panel	1	Rockwell Collins	C12404AB02
34	DME Interrogator	2	Rockwell Collins	822-0329-020
34	EGPWS	1	Honeywell	965-1676-002
34	Multi-Mode Receiver	2	THALES AVIONICS	TLS755-01-0102A
34	Radio Altimeter Transceiver	2	THALES AVIONICS	9599-607-14942
34	TCAS Computer	1	Rockwell Collins	822-1293-322
34	VOR/Marker Beacon Receiver	2	Rockwell Collins	822-0297-020
34	Weather Radar Antenna	1	Rockwell Collins	622-5137-601
34	Weather Radar Transceiver	1	Rockwell Collins	622-5132-622

MODIFICATIONS

Modification Type	Installed
406 MHz ELT	Yes
8.33 kHz Spacing	Yes
Brake Cooling Fan	Yes
Cargo Compartment Fire Detection & Suppression	Yes
Cockpit Printer	Yes
Cockpit Security CCTV	Yes
EGPWS	Yes
Enhanced Mode "S" Transponder	Yes
FM Immunity	Yes
HF Equipped	Yes
Reinforced Flight Deck Door	Yes
RVSM Capable	Yes
TCAS Change 7.1	Yes

AIRCRAFT MAINTENANCE HISTORY

<u>Date</u>	<u>Check</u>	<u>Performer</u>	<u>Hours</u>	<u>Cycles</u>
10 April 2018	2C	MagneticMRO	41,524.12	32,998
22 Mar 2016	6Y	SAS Technical Services	35,877.00	29,847
02 Apr 2014	48 MO Check	Airways	31,162.69	26,251
21 Feb 2013	2C	Aerospace	28,680.00	24,426
04 Feb 2011	6Y + 12Y HMV	Airways Lufthansa	25,843.00	22,168
05 Feb 2010	1C	Technik AG Lufthansa	23,302.00	20,294
21 Dec 2008	6C	Technik AG	20,431.15	18,387
18 Mar 2007	5C	Aerospace Industries	16,394.00	15,919
04 Mar 2005	4C & 5Y	British Midland	11,596.70	11,470
20 Dec 2003	3C	British Midland	8,825.00	8,747
17 Aug 2002	2C	British Midland	5,749.00	5,766
11 May 2001	1C	British Midland	2,845.00	2,837

ESN V106xx Technical Specification

GENERAL INFORMATION

Engine Manufacturer	IAE	TSN	41,603
Engine Type	V2527-A5	CSN	32,251
Thrust Rating	27,000	LLP Limiter	HPT [Stage 1 Inner Tobi Seal]
Date of Manufacture	1999	LLP Cycles Remaining	2,394
Comments	Operating thrust: V2527-A5 Purchased thrust: V2527-A5	Status As Of	15 April 2019

LAST SHOP VISIT

TSN at LSV	29,240	TSLSV	12,363
CSN at LSV	24,339	CSLSV	7,912
Date of LSV	28 May 2014	Maintenance Facility	MTU Maintenance GmbH
Reason of LSV	Repair		

SHOP VISIT HISTORY

<u>Date of SV</u>	<u>Reason</u>	<u>Facility</u>	<u>TSN at SV</u>	<u>CSN at SV</u>
28 May 2014	Repair	MTU Maintenance GmbH	29,240.00	24,339
12 Dec 2010	Performance Restoration	Lufthansa Technik AG	23,262.00	19,999
22 March 2007	Engine Repair	Rolls Royce	14,486.00	14,293
22 Nov 2004	Engine Repair	Rolls Royce	9,997.00	10,061
28 June 2003	Engine Repair	Rolls Royce	7,056.00	7,168

LLP DATA

Please see attached disc sheet

ESN V106xx Technical Specification

GENERAL INFORMATION

Engine Manufacturer	IAE	TSN	42,751
Engine Type	V2527-A5	CSN	32,900
Thrust Rating	27,000	LLP Limiter	Multiple
Date of Manufacture	2009	LLP Cycles Remaining	6,797
Comments	Operating thrust: V2527-A5 Purchased thrust: V2527-A5	Status As Of	15 April 2019

LAST SHOP VISIT

TSN at LSV	26,991	TSLSV	15,760
CSN at LSV	22,605	CSLSV	10,295
Date of LSV	06 Jan 2012	Maintenance Facility	Lufthansa Technik AG
Reason of LSV	Repair		

SHOP VISIT HISTORY

<u>Date of SV</u>	<u>Reason</u>	<u>Facility</u>	<u>TSN at SV</u>	<u>CSN at SV</u>
06 Jan 2012	Repair	Lufthansa Technik AG	26,991.00	22,605
02 June 2010	Performance Restoration	Lufthansa Technik AG	23,005.00	19,697
14 March 2007	Engine Repair	Rolls Royce	15,704.00	15,012
10 March 2003	Engine Repair	Rolls Royce	6,830.00	6,822

LLP DATA

Please see attached disc sheet

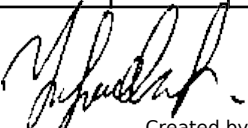
LLP Status Report

Report Date : 15Apr2019 20:48 Page : 1 of 2

(OASES Option : TR42)

Part Number	Description	Serial Number	Install Date	TSN	CSN	Position
V2527A5	ENGINE	V106XX	07Mar2017	41603:15	32251	L/H
	Model		Manufactured	AC TSN	AC CSN	Last Flight
	A320-232		17Feb2000	44319:17	34641	15Apr2019

				Life Limit		Life at Install		Life Since New		Life Remaining		
Component	Part	Serial	Limit	Hours	Cycles	Hours	Cycles	Hours	Cycles	Hours	Cycles	Due Date
Accessories / Other												
IAE IDG OIL COOLER	16844-000	0031	Cleaning	36000		0:00	0	38:35	8	35961		13Mar2040
IAE FAN DISK STAGE 1	5A1757	RSTDK39297	Discard		20000	0:00	0	18341:15	12251		7749	
IAE STUB SHAFT ASSEMBLY	5A0895	JJIF605	Discard		20000	0:00	0	18341:15	12251		7749	
IAE DISK ASSEMBLY STAGE 1.5 - 2.5	5R0159	JKBM1395	Discard		20000	0:00	0	18341:15	12251		7749	
IAE 3 TO 8 DRUM ASSEMBLY	6B1404	RRD5963	Discard		20000	0:00	0	18341:15	12251		7749	
IAE 9 TO 12 DISK ASSEMBLY	6A7546	RRD5578	Discard		20000	0:00	0	18341:15	12251		7749	
IAE REAR SHAFT ASSEMBLY	6A7711	RRDSFTCQYX5633A	Discard		20000	0:00	0	18341:15	12251		7749	
IAE REAR ROTATING SEAL	6A5869	RFRQDY1826	Discard		20000	0:00	0	18341:15	12251		7749	
IAE HPT STAGE 2 AIR SEAL	2A4157	PKLBJP6989	Discard		20000	0:00	0	18341:15	12251		7749	
IAE HPT STAGE 1 HUB ASSEMBLY	2A5001	PKLBJY8209	Discard		20000	0:00	0	18341:15	12251		7749	
IAE HPT STAGE 1 OUTER AIR SEAL	2A3423	PKLBJX0234	Discard		20000	0:00	0	18341:15	12251		7749	
IAE HPT STAGE 1 INNER AIR SEAL	2A3424	PKLBD12491	Discard		20000	22005:00	5355	40346:15	17606		2394	
IAE HPT STAGE 2 HUB ASSEMBLY	2A4802	PKLBJ18243	Discard		20000	0:00	0	18341:15	12251		7749	
IAE HPT STAGE 2 BLADE RETAINING PLATE RING	2A3437	PKLBJX5820	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT INNER AIR SEAL	3A0078	MAF00053	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 3 DISK	3A2513	JM4005D	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 4 DISK	3A1984	MAD88804	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 5 DISK	3A2430	MAD98009	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 6 DISK	3A2996	MAD67953	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 7 DISK	3A2514	JM4004D	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 3 ROTATING AIR SEAL	3A0963	MAA68014	Discard		20000	0:00	0	18341:15	12251		7749	


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Part Number	Description	Serial Number	Install Date	TSN	CSN	Position
V2527A5	ENGINE	V106XX	07Mar2017	41603:15	32251	L/H
	Model		Manufactured	AC TSN	AC CSN	Last Flight
	A320-232		17Feb2000	44319:17	34641	15Apr2019

Component	Part	Serial	Limit	Life Limit		Life at Install		Life Since New		Life Remaining		Due Date
				Hours	Cycles	Hours	Cycles	Hours	Cycles	Hours	Cycles	
IAE LPT STAGE 4 ROTATING AIR SEAL	3A2422	MAA64170	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 5 ROTATING AIR SEAL	3A2423	MAA65575	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 6 ROTATING AIR SEAL	3A1988	MAE00111	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT STAGE 7 ROTATING AIR SEAL	3A2522	MAA58483	Discard		20000	0:00	0	18341:15	12251		7749	
IAE LPT SHAFT	5A1762	JJP762	Discard		20000	0:00	0	18341:15	12251		7749	



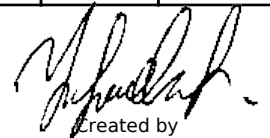
LLP Status Report

Report Date : 15Apr2019 20:49 Page : 1 of 2

(OASES Option : TR42)

Part Number	Description	Serial Number	Install Date	TSN	CSN	Position
V2527A5	ENGINE	V106XX	29Mar2012	42751:40	32900	R/H
	Model		Manufactured	AC TSN	AC CSN	Last Flight
	A320-232		17Feb2000	44319:17	34641	15Apr2019

				Life Limit		Life at Install		Life Since New		Life Remaining		
Component	Part	Serial	Limit	Hours	Cycles	Hours	Cycles	Hours	Cycles	Hours	Cycles	Due Date
Accessories / Other												
IAE IDG OIL COOLER	16844-000	0189	Cleaning	36000		35169:00	27903	50929:40	38198	20239		15Aug2032
IAE FAN DISK STAGE 1	5A1757	RSTDK38024	Discard		20000	0:00	0	19746:40	13203		6797	
IAE STUB SHAFT ASSEMBLY	5A0895	JJG183	Discard		20000	0:00	0	19746:40	13203		6797	
IAE DISK ASSEMBLY STAGE 1.5 - 2.5	5R0159	JKH1561	Discard		20000	0:00	0	19746:40	13203		6797	
IAE 3 TO 8 DRUM ASSEMBLY	6A8316	RRD5413	Discard		20000	0:00	0	19746:40	13203		6797	
IAE 9 TO 12 DISK ASSEMBLY	6A7546	RRD5296	Discard		20000	0:00	0	19746:40	13203		6797	
IAE REAR SHAFT ASSEMBLY	6A7711	RRDSFTCQYX5594A	Discard		20000	0:00	0	19746:40	13203		6797	
IAE REAR ROTATING SEAL	6A5869	RFRQDY1564	Discard		20000	0:00	0	19746:40	13203		6797	
IAE HPT STAGE 2 AIR SEAL	2A4157	PKLBJP6490	Discard		20000	0:00	0	19746:40	13203		6797	
IAE HPT STAGE 1 HUB ASSEMBLY	2A5001	PKLB JW0015	Discard		20000	0:00	0	19746:40	13203		6797	
IAE HPT STAGE 1 OUTER AIR SEAL	2A3423	PKLBHN8697	Discard		20000	0:00	0	19746:40	13203		6797	
IAE HPT STAGE 1 INNER AIR SEAL	2A3923	PKLB JH2734	Discard		20000	0:00	0	19746:40	13203		6797	
IAE HPT STAGE 2 HUB ASSEMBLY	2A4802	PKLB JU8901	Discard		20000	0:00	0	19746:40	13203		6797	
IAE HPT STAGE 2 BLADE RETAINING PLATE RING	2A3437	PKLBHP5969	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT INNER AIR SEAL	3A0078	MAA61468	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 3 DISK	3A2513	JM3715D	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 4 DISK	3A1984	MAD16942	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 5 DISK	3A2430	MAD62963	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 6 DISK	3A2996	MAD68546	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 7 DISK	3A2514	JM3646D	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 3 ROTATING AIR SEAL	3A0963	MAA62195	Discard		20000	0:00	0	19746:40	13203		6797	


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Part Number	Description	Serial Number	Install Date	TSN	CSN	Position
V2527A5	ENGINE	V106XX	29Mar2012	42751:40	32900	R/H
	Model		Manufactured	AC TSN	AC CSN	Last Flight
	A320-232		17Feb2000	44319:17	34641	15Apr2019

Component	Part	Serial	Limit	Life Limit		Life at Install		Life Since New		Life Remaining		Due Date
				Hours	Cycles	Hours	Cycles	Hours	Cycles	Hours	Cycles	
IAE LPT STAGE 4 ROTATING AIR SEAL	3A2422	MAA52901	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 5 ROTATING AIR SEAL	3A2423	MAA54687	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 6 ROTATING AIR SEAL	3A1988	MAA58973	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT STAGE 7 ROTATING AIR SEAL	3A2522	MAA58185	Discard		20000	0:00	0	19746:40	13203		6797	
IAE LPT SHAFT	5A1762	JJP429	Discard		20000	0:00	0	19746:40	13203		6797	



: A320-200
Fleet Performance Assessment



April 01, 2019

FLEET STATUS										
A/C	POS	ESN	Install Date	Last Cruise Date	No of Days (CR)	Cruise Delta EGT, °C	Cruise N1 Vib	Cruise N2 Vib	Takeoff EGT Margin °C	Comment
-										No issues noted
-	1	V118	02/10/18	12/19/18	103	27	0.4	0.6	61.6	No issues noted
-	2	V106	07/18/14	12/19/18	103	22.1	0.2	0.3	68.4	No issues noted
-										No issues noted
-	1	V106	03/07/17	01/31/19	60	37	0.5	0.3	55.8	No issues noted
-	2	V106	03/29/12	01/31/19	60	43.7	0.6	0.4	47.7	No issues noted
-										No issues noted
-	1	V118	12/14/13	03/09/19	23	49.9	0.7	0.2	42.9	No issues noted
-	2	V104	08/06/14	03/09/19	23	31.4	1.6	0.2	62.5	No issues noted

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