



## Aircraft Technical Specifications

**Information Date :** 01 September 2016  
**Aircraft Type :** ATR 42 - 500  
**Aircraft Reg :** C9-SAM  
**Aircraft Serial No :** 528  
**Current Operator:** Solenta Aviation Mozambique  
**Aircraft Configuration:** Passenger  
**Date of Manufacture :** 31 August 1995  
**A/C Age (yrs) :** 21.02  
**Airframe Total Time:** 28,720.31  
**Airframe Total Cycles :** 32,283.00  
**Estimate FH / FC from 30 May to 1 Sept** 200

### ENGINES

**Manufacturer :** PRATT & WHITNEY  
**Model :** PW127F

	<u>LH ENGINE (No 1)</u>		<u>RH ENGINE (No 2)</u>	
	<u>Turbomachinery</u>	<u>RGB</u>	<u>Turbomachinery</u>	<u>RGB</u>
Manufacturer Type:	PW127F	PW127F	PW127F	PW127F
Manufacturer Serial Number:	127123	127123	AM0025	AM0025
Time Since New (TSN):	27,733.90	27,733.90	24,251.85	24,251.85
Cycles Since New (CSN):	23,296.00	23,296.00	27,014.00	27,014.00
MFG serial number :	127123	127123	AM0025	AM0025
Overhaul limit (mnths) :	n/a	n/a	n/a	n/a
Overhaul limit (fhrs) :	"On Condition"	"On Condition"	"On Condition"	"On Condition"
TSN :	27,733.90	27,733.90	24,251.85	24,251.85
CSN :	23,296.00	23,296.00	27,014.00	27,014.00
TSO :	3,848.70	3,848.70	4,971.65	4,971.65
CSO :	3,941.00	3,941.00	4,839.00	4,839.00
Time to next overhaul :	n/a	n/a	n/a	n/a
TSHSI :	3,842.70	n/a	1,027.55	n/a
Time to next HSI :	n/a	n/a	n/a	n/a

*Bertrand Lattes Aviation Consult – B.L.A.C*

13 Rue des Tourterelles, 34130 SAINT AUNES, France Tel : +33.(0).9.81.71.02.02 Mobile : +33.(0).6.77.39.94.28

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LH ENGINE (No 1) 127123

RH ENGINE (No 2) AM0025

ENGINE ROTABLE - LIFE LIMITS

	<u>Limit</u>	<u>CSN</u>	<u>Remaining</u>	<u>Limit</u>	<u>CSN</u>	<u>Remaining</u>
PT Disk Stg 1	30,000	4,325	25,675	30,000	1,007	28,993
PT Disk Stg 2	30,000	4,325	25,675	30,000	14,865	15,135
HPT Cover Frnt	12,750	4,197	8,553	12,750	1,007	11,743
HPT Cover Rear	15,000	8,744	6,256	15,000	5,244	9,756
HP impeller	15,000	4,325	10,675	15,000	5,244	9,756
HP Turbine Disk	15,000	8,744	6,256	15,000	1,007	13,993
LP impeller	15,000	4,325	10,675	15,000	5,244	9,756
LP Turbine Disk	15,000	8,744	6,256	15,000	1,007	13,993
Interstage seal	11,250	4,325	6,925	11,250	5,244	6,006

PROPELLERS

Manufacturer :

HAMILTON SUNDSTRAND

	<u>LH PROP</u>		<u>RH PROP</u>	
Manufacturer Type	14SF - 11		14SF - 11	
	<u>ASSY</u>	<u>HUB</u>	<u>ASSY</u>	<u>HUB</u>
MFG serial number :	FR961056	919	FR980654	82
Type / Part number :	568F	815470-2	568F	815470-2
Overhaul limit (mnths):	n/a	84.00 mths	n/a	84.00 mths
Overhaul limit (fhhrs) :	n/a	10,500.00	n/a	10,500.00
TSN :	24,895.84	9,050.61	23,880.72	28,504.27
TSO :	n/a	1,038.20	n/a	1,038.80
Time to next overhaul :	n/a	9,461.80	n/a	9,461.20
First installation date :	n/a	08/02/2014	n/a	18/01/2014
Next overhaul date :	n/a	04/02/2021	n/a	14/01/2021
Remaining months:	n/a	53.21 mths	n/a	52.52 mths

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**LH PROP BLADE INFORMATION :**

	<u>BLADE 1</u>	<u>BLADE 2</u>	<u>BLADE 3</u>	<u>BLADE 4</u>	<u>BLADE 5</u>	<u>BLADE 6</u>
Type / Part number :	FR20011142RT	FR20010614	FR2087	FR874	FR20020485RT	FR2338
MFG serial number :	R815505R3W	R815505S3W	R815505R3W	R815505R3W	R815505S3W	R815505R3W
Overhaul limit (mths):	84.00 mths	84.00 mths	84.00 mths	84.00 mths	84.00 mths	84.00 mths
Overhaul limit (fhrs) :	10,500	10,500	10,500	10,500	10,500	10,500
TSN :	22,962.80	14,219.27	22,170.60	22,315.60	6,106.76	21,444.20
TSO :	1038.8	1025.76	4,032.60	4,032.59	1025.76	4032.66
Time to next overhaul :	9,461.20	9,474.24	6,467.40	6,467.41	9,474.24	6,467.34
First installation date :	18/12/2013	18/03/2014	13/08/2010	19/08/2010	18/03/2014	19/08/2010
Next overhaul date :	14/12/2020	14/03/2021	09/08/2017	15/08/2017	14/03/2021	15/08/2017
Remaining months:	51.50 mths	54.46 mths	11.27 mths	11.47 mths	54.46 mths	11.47 mths

**RH PROP BLADE INFORMATION :**

	<u>BLADE 1</u>	<u>BLADE 2</u>	<u>BLADE 3</u>	<u>BLADE 4</u>	<u>BLADE 5</u>	<u>BLADE 6</u>
Type / Part number :	FR20051238RT	FR20070154RT	FR200710115RT	FR200903013RT	FR20060912RT	FR20060137RT
MFG serial number :	R815505-3	R815505-6	R815505-6	R815505-6	R815505-6	R815505R3W
Overhaul limit (mths):	84.00 mths	84.00 mths	84.00 mths	84.00 mths	84.00 mths	84.00 mths
Overhaul limit (fhrs) :	10,500	10,500	10,500	10,500	10,500	10,500
TSN :	11,237.24	911.49	798.04	2,330.68	9,061.61	12,095.80
TSO :	1,498.18	911.49	798.04	2,330.68	2,099.61	4,028.80
Time to next overhaul :	9,001.82	9,588.51	9,701.96	8,169.32	8,400.39	6,471.20
First installation date :	09/06/2013	26/02/2015	30/05/2015	16/08/2012	30/03/2012	13/08/2010
Next overhaul date :	05/06/2020	22/02/2022	26/05/2022	13/08/2019	27/03/2019	09/08/2017
Remaining months:	45.18 mths	65.81 mths	68.87 mths	35.41 mths	30.84 mths	11.27 mths

**LANDING GEARS**

	<u>LH-MLG</u>	<u>RH-MLG</u>	<u>NLG</u>
Manufacturer Serial Number	MN335	MN335-R	B253
MFG Part number :	D22685500-5	D22686500-6	D22698500-6
Overhaul limit (cycles)	18,000	18,000	18,000
Overhaul limit (mths):	108 mths	108 mths	108 mths
CSN :	29,307.00	29,307.00	28,252.00
CSO :	1,021.00	1,021.00	1,021.00
Cycles to next OH:	16,979.00	16,979.00	16,979.00
First installation date :	28/03/2014	04/04/2014	26/03/2014
Next OVH Date :	26/03/2023	02/04/2023	24/03/2023
Remaining months:	78.85 mths	79.08 mths	78.78 mths

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**SCHEDULED INSPECTIONS**

<u>EVENT DESCRIPTION</u>	<u>LAST ACTUAL INSP</u>	<u>NEXT REQUIRED INSPECTION</u>	<u>INTERVAL</u>	<u>REMAINING</u>	<u>UOM</u>
Airframe SI (CY)	28/05/2016	28/05/2017	12 mths	8.85 mths	MONTH
Airframe SI (CAL) 2-year	15/08/2016	15/08/2018	24 mths	23.45 mths	MONTH
Airframe SI (CAL) 4-year	15/08/2016	14/08/2020	48 mths	47.47 mths	MONTH
Airframe SI (CAL) 8-year	20/04/2012	18/04/2020	96 mths	43.59 mths	MONTH
12 YEAR CHECK	11/06/2010	08/06/2022	144 mths	69.28 mths	MONTH
1C Checks	15/08/2016	n/a	5,000.00	5,000.00	FHRS
2C Checks	15/08/2016	n/a	10,000.00	10,000.00	FHRS
4C Checks	28/10/2010	n/a	20,000.00	11,480.69	FHRS
A - CHECK	15/08/2016	n/a	500.00	500.00	FHRS
18K CYCLE CHECK	28/10/2010	n/a	18,000.00	n/a	CYCLES
21K CYCLE CHECK	28/10/2010	n/a	21,000.00	n/a	CYCLES
24K CYCLE CHECK	n/a	n/a	24,000.00	n/a	CYCLES
27K CYCLE CHECK	n/a	n/a	27,000.00	n/a	CYCLES
33K CYCLE CHECK	n/a	n/a	33,000.00	n/a	CYCLES
36K CYCLE CHECK	n/a	n/a	36,000.00	3,717.00	CYCLES

**AIRCRAFT MAIN FEATURES**

<u>AVIONICS</u>	<u>MANUFACTURER</u>	<u>TYPE</u>
ADF RECEIVER No1	COLLINS	ADF-60A
ADF RECEIVER No2	COLLINS	ADF-60A
AFSC COMPUTER	HONEYWELL	7003974-608
CVR	FAIRCHILD	2100-1020-02
DME TRANSCEIVER No1	COLLINS	DME-42
DME TRANSCEIVER No2	COLLINS	622-6263-001
EFIS SCREEN - LH BOTTOM	HONEYWELL	7003110-912
EFIS SCREEN - LH TOP	HONEYWELL	7003110-912
EFIS SCREEN - RH BOTTOM	HONEYWELL	7003110-912
EFIS SCREEN - RH TOP	COLLINS	7003110-912
EGPWS COMPUTER	HONEYWELL	965-1206-011
ELT	ELTA	01N65900
FDR	FAIRCHILD	S800-2000-00
HF RADIO AMPLIFIER	COLLINS	PWR230
HF RADIO CONTROLLER	COLLINS	622-6614-021
HF RADIO EXCITOR	COLLINS	TCR-230
MAIN BATTERY	HAWKER	9750W0538

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MULTI COLOUR DISPLAY - GNSS No 1	ATR	82165-18-005
MULTI COLOUR DISPLAY - GNSS No 2	GE AVIATION	82165-22
MULTI FUNCTION COMPUTER No1	AEROSPATIALE	LA4E20606HM0100
MULTI FUNCTION COMPUTER No2	AVIONICS SIMULATIO	LA4E20606HM0100
MULTI PURPOSE COMPUTER	SAGEM	ED35E109-01-04
NAV RECEIVER No1	COLLINS	VIR-32
NAV RECEIVER No2	COLLINS	VIR-32
NAVIGATION - PROCESSOR UNIT NO 1	HONEYWELL	HT1000
RADIO ALTIMETER TRANSCEIVER	THALES	ERT 011
TCAS TRANSCIEVER	COLLINS	622-8971-122
TRANSPONDER MODE S No1	COLLINS	622-9210-005
TRANSPONDER MODE S No2	COLLINS	622-9210-006
VHF COMMS TRANSCEIVER No1	BENDIX KING	822-1113-021
VHF COMMS TRANSCEIVER No2	COLLINS	VHF 22C
WX ANTENNA	BENDIX KING	WR-800
WX TRANSCEIVER	HONEYWELL	MI585350-5

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