

TECHNICAL SPECIFICATION

LAST UPDATED 01 Apr 2020

GENERAL DESCRIPTION

Aircraft Model	ATR72-212
Aircraft Registration	
State of Registration	South Africa
Regulatory Standard	N/A
Date of Manufacture	25 May 1994
Operator	
Owner	



WEIGHTS & CAPACITY

1 kg = 2.2046 lbs, 1 lbs = 0.4536 kgs

Max Ramp Weight	48,899 lbs	22,180 kgs	
Max Take Off Weight	48,502 lbs	22,000 kgs	
Max Landing Weight	48,171 lbs	21,850 kgs	
Max Zero Fuel Weight	44,093 lbs	20,000 kgs	
Operating Empty Weight	28,660 lbs	13,000 kgs	
Max Fuel Capacity	10,175 lbs	4,615 kgs	1,524 USG

AIRFRAME MAINTENANCE STATUS (08 Apr 2020)

Total Hours	36,430.41
Total Cycles	39,705

Check Name	Interval	Last Done Date	Hours	Cycles	Next Due	Remaining
ATR 1C Check	5,000 FH	32,839 FH	22 Sep 2014	37,839 FH		FH: 1,408.59
ATR 2C Check	10,000 FH	35,796.69 FH	24 Oct 2018	45,796.69 FH		FH: 9,366.28
ATR 36K Cycle Check	36,000 FC	N/A	N/A	36,000 FC		FC: N/A
ATR 4C Check	20,000 FH	35,796.69 FH	27 Oct 2018	55,796.69 FH		FH: 19,366.28
ATR 12Y Check	144 Months		09 Aug 2012	N/A	09 Aug 2024	N/A
ATR 2Y Check	24 Months		25 Oct 2018	N/A	25 Oct 2020	N/A
ATR 4Y Check	48 Months	34,101 FH	03 Oct 2016	N/A	03 Oct 2020	N/A
ATR 8Y Check	96 Months		25 Oct 2018	N/A	25 Oct 2026	N/A

Engines

Engine 1					
Serial Number	127147	Date Last SV	18 Sep 2018	Manufacturer	Pratt & Whitney
TSN	29,743.31	TSLSV	634.91	Model	PW127
CSN	32,867	CSLSV	695	Thrust Rating	1,611
Status As Of	31 Mar 2020	LLP Limiter	TMM [Engine Module] [HP impeller]	Engine Control	Yes
			Limiting Cycles	7,847	
Comments	Test Cell: Final Vane Flow Classes : 1 Stage 8.11 / 2 Stage 15.10 / 3 Stage 35.45.				

Engine 2					
Serial Number	127005	Date Last SV	27 Sep 2018	Manufacturer	Pratt & Whitney
TSN	30,530.61	TSLSV	1619.91	Model	PW127
CSN	33,314	CSLSV	6067	Thrust Rating	1,611
Status As Of	31 Mar 2020	LLP Limiter	TMM [Engine Module] [Multiple]	Engine Control	Yes
Limiting Cycles			7,933		
Comments	Build spec: 774Test Cell: Final Vane Flow Classes : 1 Stage 7.98 / 2 Stage 15.12 / 3 Stage 35.34				

Propellers

Name		950612 [Propeller 1]		Manufacturer		Hamilton Sundstrand Corp	
Part	Serial No	Limits	Time Since New	Time Since Overhaul	Installation / Last Overhaul	Time to Overhaul	Next Overhaul Date
Hub - 20080911	20080911	10,500 Hours 84 Months	4,524.61	4,525 Hours 34 Months	17 May 2017	5,975 Hours 50 Months	17 May 2024
Actuator - 940313	940313	10,500 Hours 84 Months	30,549.16	10,173 Hours 34 Months	16 May 2017	327 Hours 50 Months	16 May 2024
Blade 1 - FR2911	FR2911	10,500 Hours 84 Months	19,472.90	17 Hours 1 Months	14 Feb 2020	0 Hours 83 Months	14 Feb 2027
Blade 2 - FR2732	FR2732	10,500 Hours 84 Months	18,335.31	2,748 Hours 51 Months	25 Dec 2015	7,752 Hours 33 Months	25 Dec 2022
Blade 3 - FR2623	FR2623	10,500 Hours 84 Months	22,001.83	638 Hours 16 Months	14 Nov 2018	9,862 Hours 68 Months	14 Nov 2025
Blade 4 - FR20061023RT	FR20061023RT	10,500 Hours 84 Months	4,064.71	3,044 Hours 56 Months	29 Jul 2015	7,456 Hours 28 Months	29 Jul 2022

Name		940113 [Propeller 2]		Manufacturer		Hamilton Sundstrand Corp	
Part	Serial No	Limits	Time Since New	Time Since Overhaul	Installation / Last Overhaul	Time to Overhaul	Next Overhaul Date
Hub - 336	336	10,500 Hours 84 Months	20,485.62	4,293 Hours 83 Months	05 Apr 2013	6,207 Hours 1 Months	05 Apr 2020
Actuator - 930202	930202	10,500 Hours 84 Months	34,685.84	9,779 Hours 83 Months	05 Apr 2013	721 Hours 1 Months	05 Apr 2020
Blade 1 - FR2654	FR2654	10,500 Hours 84 Months	19,952.54	2,439 Hours 44 Months	03 Jul 2016	8,061 Hours 40 Months	03 Jul 2023
Blade 2 - FR20070510RT	FR20070510RT	10,500 Hours 84 Months	4,712.81	1,575 Hours 29 Months	25 Oct 2017	8,925 Hours 55 Months	25 Oct 2024
Blade 3 - FR20060318RT	FR20060318RT	10,500 Hours 84 Months	12,114.01	506 Hours 14 Months	12 Jan 2019	9,995 Hours 70 Months	12 Jan 2026
Blade 4 - FR2321	FR2321	10,500 Hours 84 Months	17,626.37	2,437 Hours 60 Months	29 Mar 2015	8,063 Hours 24 Months	29 Mar 2022

Engine 1

Engine Manufacturer	Pratt & Whitney	TSN	29,743.31
Engine Model	PW127	CSN	32,867
Engine Serial Number	127147	LLP Limiter	TMM [Engine Module] [HP impeller]
Engine Thrust	1,611 lbs	LLP Cycles Remaining	7,847
Date of Manufacture	25 May 1994	Status As Of	31 Mar 2020

LAST SHOP VISIT

Date of Last Shop Visit	18 Sep 2018	Maintenance Facility	Pratt & Whitney
Total FH at Shop Visit	29,108.40	FH Since Last Shop Visit	634.91
Total FC at Shop Visit	32,172	FC Since Last Shop Visit	695
Reason for Last Shop Visit	H.S.I		

SHOP VISIT HISTORY

Date of SV	Reason	Facility	TSN at SV	CSN at SV
18 Sep 2018	H.S.I	Pratt & Whitney	29,108	32,172
25 Mar 2012	O/Haul	Pratt & Whitney	25,967	29,894

LLP STATUS

Module	Description	Part Number	Serial Number	Cycles Limit	Cycles Used	Cycles Remaining
TMM [Engine Module]	LP impeller	3072764-01	A0034D0	15,000	3,016	11,984
TMM [Engine Module]	HP impeller	3043293	A0002774L	15,000	7,153	7,847
TMM [Engine Module]	HPT Cover Frnt	3039640	A00278NE	15,000	7,109	7,891
TMM [Engine Module]	HPT Cover Rear	3039639	A0026TKM	15,000	7,109	7,891
TMM [Engine Module]	HP Turbine Disk	3041511	A0026W78	15,000	7,109	7,891
TMM [Engine Module]	Interstage seal	3039172	TPAA5130	15,000	7183	7817
TMM [Engine Module]	HP Turbine Blades	3115601-01	Various	15,000	694	14,306
TMM [Engine Module]	LP Turbine Disk	3039412	A00215NL	15,000	7,109	7,891
TMM [Engine Module]	PT Disk Stg 1	3038513	A000L91W	30,000	12,660	17,340
TMM [Engine Module]	PT Disk Stg 2	3033914	37B955	30,000	20,750	9,250

ENGINE 2

Engine Manufacturer	Pratt & Whitney	TSN	30,530.61
Engine Model	PW127	CSN	33,314
Engine Serial Number	127005	LLP Limiter	TMM [Engine Module] [Multiple]
Engine Thrust	1,611 lbs	LLP Cycles Remaining	7,933
Date of Manufacture	25 May 1994	Status As Of	31 Mar 2020

LAST SHOP VISIT

Date of Last Shop Visit	27 Sep 2018	Maintenance Facility	Pratt & Whitney
Total FH at Shop Visit	29,895.70	FH Since Last Shop Visit	1619.91
Total FC at Shop Visit	32,619	FC Since Last Shop Visit	6067
Reason for Last Shop Visit	Repair		

SHOP VISIT HISTORY

Date of SV	Reason	Facility	TSN at SV	CSN at SV
27 Sep 2018	Repair	Pratt & Whitney	29,896	32,619
27 May 2015	H.S.I	Pratt & Whitney	28,911	32,083
03 Oct 2006	O/Haul	Atlantic Turbines	23,547	27,247

LLP STATUS

Module	Description	Part Number	Serial Number	Cycles Limit	Cycles Used	Cycles Remaining
TMM [Engine Module]	LP impeller	3072764-01	EAAD000M5 30	15,000	1,331	13,669
TMM [Engine Module]	HP impeller	3072766-01	A0047L4H	15,000	695	14,305
TMM [Engine Module]	HPT Cover Frnt	3039640	A0021M05	15,000	7,067	7,933
TMM [Engine Module]	HPT Cover Rear	3039639	A003KHXA	15,000	1,331	13,669
TMM [Engine Module]	HP Turbine Disk	3041511	A003KDW8	15,000	1,331	13,669
TMM [Engine Module]	Interstage seal	3039172	UA AE1123	15,000	1,405	13,595
TMM [Engine Module]	HP Turbine Blades	3115601-01	Various	15,000	695	14,305
TMM [Engine Module]	LP Turbine Disk	3039412	A0020EBT	15,000	7,067	7,933
TMM [Engine Module]	PT Disk Stg 1	3038513	A00214H2	30,000	7,067	22,933
TMM [Engine Module]	PT Disk Stg 2	3033914	A000B128	30,000	19,580	10,420

LANDING GEAR

Manufacturer	ATR		
Position	Nose Gear	LH Wing Gear	RH Wing Gear
Serial Number	B238	MN56	MN53
Total Time Since New	N/A	N/A	N/A
Total Cycles Since New	31,457	39,456	39,456
Time Since Overhaul	N/A	N/A	N/A
Cycles Since Overhaul	3,670	1,739	1,739
Overhaul Interval	18,000 FC or 108 Months	20,000 FC or 108 Months	20,000 FC or 108 Months
Cycles Remaining	14,330	18,261	18,261

AVIONICS EQUIPMENT

ATA	Description	Qty	Manufacturer	Model/PN
22-10	Auto Pilot Computer	1		7003974-606
22-10	Flight Guidance Control Panel	1		7003975-602
23-10	VHF Transceiver	1	Colins	622-6152-031
23-10	VHF Transceiver	1	Collins	822-1113-021
23-10	VHF/Comm Control panel	1	Collins	822-1120-003
23-10	VHF/Comm Control panel	1	Collins	622-6520-003
23-70	CVR	1	L3	2100-1020-02
23-70	CVR/FDR		L3	DK120
25-60	ELT	1	Elta	9260065
31-30	FDAU	1		ED34A110
31-30	FDR	1		2100-4043-00
31-40	Multi Function Computer (MFC)	1		35-0A5-3001-102
31-40	Multi Function Computer (MFC)	1		35-0A5-3001-102
31-50	Crew Alerting Panel - CrewPanel	1		351-35848-102
34-10	Air Data Computer (ADC) - ADC-2	1		7000700-951
34-10	Air Data Computer (ADC) - ADC-1	1		7000700-951
34-10	VSI/TCAS Indicator	1		457400TB0812
34-10	VSI/TCAS Indicator	1		457400TC0812
34-20	Attitude Headomg Reference Unit (AHRU) - AHRU-1	1		7003360-946
34-20	Attitude Headomg Reference Unit (AHRU) - AHRU-2	1		7003360-946
34-40	Ground Proximity Warning Computer	1		965-1216-011
34-40	TCAS Transceiver	1		822-1293-033
34-40	Wx Radar Control Panel	1		7006921-302
34-40	WX Radar Transceiver	1		MI58350-5
34-50	ATC Transponder	1	Collins	622-9210-007
34-50	DME	1	Collins	622-6524-003
34-50	ADF Control unit	1		622-6522-003
34-50	ATC Tranponder	1		622-9210-007
34-50	ATR Control Panel	1		
34-50	DME Transceiver	1		622-6263-003
34-50	GPS Receiver	1	Bendix / King	010-00819-00
34-50	GPS Receiver	1		011-02281-0
34-50	VOR/ILS/DME	1	Collins	622-6521-011
34-50	VOR/ILS/MKR Receiver	1		622-6137-201
34-50	VOR/ILS/MKR Receiver	1	Collins	622-6137-201
34	EFIS - EFIS-RTop	1		7003110-912
34	EFIS - EFIS-LBot	1		7003110-912
34	EFIS - EFIS-LBot	1		7003110-912
34	EFIS - EFIS-RTop	1	Honeywell	7003110-912

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