

Rotax Engined Aircraft Database
February 2008
Compiled by MISASA



	A/C Type	Engine type	Total operation time	Location	Comments
1	Raptor	503	500	Highveld	
2	Cosmos	582	400	Highveld	Stood for 1 yr, although the crank was still in good condition
3	Streak Shadow	582	400	Cato Ridge	
4	Windlass	503	566	Gauteng	
5	Windlass	503	559	Natal Coast	
6		503	218	Cape	
7	Raptor	582	387	Highveld	
8	Windlass	503	500	Higveld	
9	Windlass	503	350	Mpumalanga	
10	Windlass	503	680	Gauteng	Crank replaced at 600 hours for scheduled maintenance reasons; no failure
11		503	575	Cape	
12	Windlass 1995	503	550	Highveld	Small end bearings replaced at 400 hours
13	Windlass	503	422	FreeState	
14		582	280	Mpumalanga	
15	Aerotrike	503	804	Cape	
16	Aerotrike Safari	582	465	Highveld	
17	Windlass	503	286	Highveld	
18	Aerotrike Sprint 2	582 Silvertop	240	Cape	Never been opened
19	Koala	503	470	Highveld	
20	Safari	582 Silvertop	700	Gauteng	Decoke and top end service at 700hrs
21	Aquilla	582	442	Highveld	
22	Aerotrike	503	511	Grhamstown	
23	Aerotrike Spirit	503	330	W Cape	
24		503	480		
25	Raptor	582		Highveld	Crank replaced to stay legal
26	Aquilla	503	302	Highveld	
27	Aquilla	503	604	W Cape	
28	Aquilla	503	847	Natal Midland	Replaced engine at 847 hrs
29	Aquilla	582	440	Gauteng	
30	Aquilla	503	800	Natal Coast	Replaced bearings & seals and sold aircraft

31	Aerotrike Safari	582	421	Brits	
32	Aquilla	582	772	Highveld	
33		582	261	Cape	
34		582	505	Cape	
35	Challenger	582	252	W cape	
36	Aquilla	582	560	Gauteng	
37	Aquilla	503	1023	Grahamstown	Crank replaced for safety reasons, but crank was still on good condition
38	Aquilla	582	243	Highveld	
39	Aquilla	503	530	N.Cape	Found to be serviceable
40	Aquilla	582	347	Witbank	
41	Aquilla	503	390	Natal Coast	New pistons at 290 hrs due to cold sieze + crank bearings & seals
42		503	1315	Cape	
43	Anteres	582	1350	Highveld	Flying School
44	Rans S5	503	208	Highveld	
45	Sensation	618	70	Highveld	
46	Raptor	582	420	Highveld	Still running
47	Aquilla	582	1100	Highveld	Crank replaced - concerned about age and possible failure
48	Windlass	503	460	Witbank	
49	Aquilla	582	192	Swaziliand/Mozambique/KZN	Crank siezed at 192 hours, plus other parts. All replaced and second seizure occurred at 370 hours
50	Aquilla	582	700	Gauteng	
51	Aquilla	582	324	Highveld	
52	Aquilla	503	359	Highveld	
53		503	438	Cape	
54	Aquilla	582	259	Highveld	
55	Safari Trike	503	1300	Natal Coast	Replaced bearings & seals at 850 hrs. Aircraft sold at 1300 hrs
56		503	346	Cape	
57	Aerotrike Scout	503	2400	Highveld	
58	Aquilla	503	320	Highveld	
59	Aerotrike Spirit	582	450	Coast	
60	Safari Trike	503	1400	Natal Coast	Replaced braings, seals & pistons at 850 hrs
61	Aquilla	582	216	Highveld	
62	Airborne Edge 2000	582 Bluetop	604	Gauteng	280 hours flown at coast; engine opened and inspected at 385hrs; within tolerance
63	Cobra	582	300	Highveld	Aircraft sold, no work done on engine

64 Trike	503	1000	Natal Coast	Replaced Crank bearings 7 seals at 950 hrs
65 Thunderbird	582	326	Highveld	Crank due to replace at 350 hrs to stay legal
66 Bushbaby	582	200	Highveld	
67 Cheetah	582	800	Highveld	Condition of sale to new owner
68 Cheetah	582	265	N Cape	
69 Aquilla	582	374	N.Cape	Crank replaced to stay legal
70 Aquilla	582	281	Highveld	
71 Raptor	582	850	Gauteng	
72 Aquilla	503	460	Swaziland	Complete dissassembly & Inspect
73 Cheetah	582	500	Highveld	Crank replaced to stay legal
74	582	453		
75 Aquilla	582 Blue Top	612	Gauteng	
76 Aquilla	582	643	Highveld	
77 Raptor	582	467	Highveld	
78 Aquilla	582	220	Limpopo	
79 Raptor	582	820	Gauteng	
80 Aquilla	582	350	Highveld	Inspected and found within tolerance
81 Thunderbird	582	130	Highveld	
82 Raptor	582	172	W Cape	
83	582	450	Cape	
84 Aerotrike Cobra	582	320	Highveld	Will o/haul in Feb
85	582	110		
86 Aquilla	582	92	Highveld	
87 Dragonfly	582	212	Natal Coast	
88 Windlass 1987	503	700	Highveld	rebore and pistons @ 400hrs due to v-belt failure
89 Windlass	503	746	Highveld	Crank replaced at 500 hrs, engine stood for 18 months
90 Koala	532	460	Gauteng	
91 Aquilla	503	328	Highveld	
92 Windlass	582	370	Brits	
93 Windlass	503	940	Grahamstown	Replaced engine at 940 hrs
94	503	1105	Cape	
95 Cosmos	503	565	Natal Coast	
96	503	700	Cape	
97 Aquilla	582	615	Highveld	
98 Windlass	503	593	Highveld	
99 Air Creation Buggy	582	265	Cape	

100	503 DCDI	600	Cape	
101	503 DCDI	770	Gauteng	Crank inspected at 650 hrs and within spec
102	503 Single ignition	880	Mpumalanga	
103	503 DCDI	815	Mpumalanga	
104	503	750	Mpumalanga	
105	503	600	Mpumalanga	
106	Hornet 503	680	Gauteng	
107	503	600	Mpumalanga	
108	618	250	Gauteng	
109	582	470	Gauteng	
110	582 Silvertop	757	KZ-Natal	Inspected at 727hrs, within spec
111	582	600	Mpumalanga	Crank replaced at 300hrs per schedule
112	582 Bluetop	730	Gauteng	Decoked at 380hrs; crank replaced at 730 hrs
113	582 Bluetop	300	Gauteng	Decoked at 300hrs; engine same as previous entry
114	Aquilla 582 Silvertop	362	Gauteng	Decoked at 280hrs
115	582	280	Gauteng	
116	618	410	Gauteng	Crank inspected at 300hrs, within spec
117	Aquilla 582 Silvertop	1160	Limpopo	
118	582	600	Gauteng	
119	582 Bluetop	1450	Gauteng	
120	582 Silvertop	296	Gauteng	Engine overhauled, crank bearings replaced, piston rings, crankcase, head, barrels as part of scheduled maintenance
121	503 Single ignition	520		
122	503 DCDI	212		
123	503 DCDI	620		
124	Windlass 503	630		
125	Windlass 503 Single ignition	700		Crank failure at 720 hrs
126	Aquilla 503 DCDI	1000		
127	582	600	Cape	
128	Aerotrike 503 DCDI	480		
129	503	420	KZ-Natal	
130	582 Bluetop	350	Gauteng	Inspected at 300hrs, within spec
131	503	580	Gauteng	Opened for inspection at 435hrs after 7 years, no problems found
132	Flightstar 503 Single ignition	350		
133	Windlass 503 DCDI	430		Chemical de-coke every 100 hours
134	Aquilla 582 Silvertop	520		

135	Challenger	582 Bluetop	39	
136	Aquila II	582 Bluetop	425	Cape
137	Polaris Skin	582 Bluetop	246	Gauteng
138		582 Blue Top	210	Cape

Spark plugs replaced every 50 hrs without fail; Gearbox oil replaced every 100 hours; Air filter cleaned every 100 hrs; Fuel filter replaced every 100 hrs; Fuel pipe replaced every 200 hrs

Average operating time	533.8
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