

CEN19LA220

Engine Data Analysis (Accident Flight)

ICON Aircraft A5 (N83BA)

Power Mode			
	% of Flight	Total Hours	Total Minutes
Engine Mode = OFF	0.08%	0.002	0.1
Engine Mode = ECON	31.53%	0.728	43.7
Engine Mode = POWER	68.39%	1.579	94.8
Totals	100.00%	2.309	138.6

Engine Throttle Sensor Position			
	% of Flight	Total Hours	Total Minutes
Engine Throttle >= 85%	91.20%	2.106	126.4
Engine Throttle >= 86%	91.10%	2.104	126.2
Engine Throttle >= 87%	90.78%	2.096	125.8
Engine Throttle >= 88%	90.63%	2.093	125.6
Engine Throttle >= 89%	90.45%	2.089	125.3
Engine Throttle >= 90%	90.15%	2.082	124.9
Engine Throttle >= 91%	89.97%	2.078	124.7
Engine Throttle >= 92%	89.47%	2.066	124.0
Engine Throttle >= 93%	88.43%	2.042	122.5
Engine Throttle >= 94%	85.92%	1.984	119.0
Engine Throttle >= 95%	80.53%	1.860	111.6
Engine Throttle >= 96%	78.01%	1.802	108.1
Engine Throttle >= 97%	74.63%	1.723	103.4
Engine Throttle >= 98%	72.09%	1.665	99.9
Engine Throttle >= 99%	64.79%	1.496	89.8
Engine Throttle = 100%	52.47%	1.212	72.7

Engine Speed (RPM)			
	% of Flight	Total Hours	Total Minutes
Engine RPM < 1,000 and Null	0.23%	0.005	0.3
Engine RPM 1,000 to 1,100	0.03%	0.001	0.0
Engine RPM 1,100 to 1,200	0.02%	0.001	0.0
Engine RPM 1,200 to 1,300	0.02%	0.000	0.0
Engine RPM 1,300 to 1,400	0.00%	0.000	0.0
Engine RPM 1,400 to 1,500	0.01%	0.000	0.0
Engine RPM 1,500 to 1,600	0.01%	0.000	0.0
Engine RPM 1,600 to 1,700	0.01%	0.000	0.0
Engine RPM 1,700 to 1,800	0.03%	0.001	0.0
Engine RPM 1,800 to 1,900	0.06%	0.001	0.1
Engine RPM 1,900 to 2,000	0.20%	0.005	0.3
Engine RPM 2,000 to 2,100	0.09%	0.002	0.1
Engine RPM 2,100 to 2,200	0.10%	0.002	0.1
Engine RPM 2,200 to 2,300	0.06%	0.001	0.1

Engine RPM 2,300 to 2,400	0.16%	0.004	0.2
Engine RPM 2,400 to 2,500	0.25%	0.006	0.3
Engine RPM 2,500 to 2,600	0.08%	0.002	0.1
Engine RPM 2,600 to 2,700	0.61%	0.014	0.9
Engine RPM 2,700 to 2,800	2.92%	0.068	4.1
Engine RPM 2,800 to 2,900	0.70%	0.016	1.0
Engine RPM 2,900 to 3,000	0.03%	0.001	0.0
Engine RPM 3,000 to 3,100	0.02%	0.000	0.0
Engine RPM 3,100 to 3,200	0.29%	0.007	0.4
Engine RPM 3,200 to 3,300	0.16%	0.004	0.2
Engine RPM 3,300 to 3,400	0.04%	0.001	0.1
Engine RPM 3,400 to 3,500	0.14%	0.003	0.2
Engine RPM 3,500 to 3,600	0.37%	0.009	0.5
Engine RPM 3,600 to 3,700	0.30%	0.007	0.4
Engine RPM 3,700 to 3,800	0.21%	0.005	0.3
Engine RPM 3,800 to 3,900	0.16%	0.004	0.2
Engine RPM 3,900 to 4,000	0.25%	0.006	0.4
Engine RPM 4,000 to 4,100	0.08%	0.002	0.1
Engine RPM 4,100 to 4,200	0.10%	0.002	0.1
Engine RPM 4,200 to 4,300	0.19%	0.004	0.3
Engine RPM 4,300 to 4,400	0.27%	0.006	0.4
Engine RPM 4,400 to 4,500	0.37%	0.009	0.5
Engine RPM 4,500 to 4,600	0.35%	0.008	0.5
Engine RPM 4,600 to 4,700	0.25%	0.006	0.3
Engine RPM 4,700 to 4,800	0.29%	0.007	0.4
Engine RPM 4,800 to 4,900	0.15%	0.003	0.2
Engine RPM 4,900 to 5,000	0.35%	0.008	0.5
Engine RPM 5,000 to 5,100	1.32%	0.030	1.8
Engine RPM 5,100 to 5,200	4.48%	0.104	6.2
Engine RPM 5,200 to 5,300	6.50%	0.150	9.0
Engine RPM 5,300 to 5,400	6.63%	0.153	9.2
Engine RPM 5,400 to 5,500	10.57%	0.244	14.6
Engine RPM 5,500 to 5,600	26.63%	0.615	36.9
Engine RPM 5,600 to 5,700	28.77%	0.664	39.9
Engine RPM 5,700 to 5,800	4.96%	0.115	6.9
Engine RPM 5,800 to 5,900	0.18%	0.004	0.2
	% of Flight	Total Hours	Total Minutes
Totals	100.00%	2.309	138.6

Engine RPM Operating Range			
	% of Flight	Total Hours	Total Minutes
Engine RPM < 4,000	7.56%	0.175	10.5
Engine RPM 4,000 to 5,500	31.90%	0.737	44.2
Engine RPM 5,500 to 5,800	60.36%	1.394	83.6
Engine RPM >= 5,800	0.18%	0.004	0.2
	% of Flight	Total Hours	Total Minutes
Totals	100.00%	2.309	138.6