



WOOD GROUP PRATT AND WHITNEY GG4C-1D PERFORMANCE EVALUATION

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ACCEPTANCE TEST LIMITS

CUSTOMER:	WGP&W	DATE:	08-Aug-08
ENGINE MODEL:	GG4	TEST SITE:	Plattsburgh
SUB-MODEL:	C-1D	WG TEST REP.:	Tim Jones
E/S/N:	686626		

PARAMETER		OBSERVED VALUES	OEM LIMITS	
			OEM MAX.	OEM MIN.
Maximum EGT:	Steady State	1232 °F obs	1250 °F obs	N/A
	Idle Spread	145 °F	200 °F	N/A
	EGT Delta	145 °F obs	200 °F obs	N/A
N1		6481 rpm obs	7160 rpm obs	N/A
N2		8343 rpm obs	9350 rpm obs	N/A
Idle Main Oil Pressure		38 psig	N/A	35 psig
Maximum Continuous Oil Pressure		46 psig	50 psig	40 psig
Oil Consumption		0.0 gal/hr	0.2 gal/hr	N/A
Oil Temperature-Stabilized		213 °F	215 °F	185 °F
Breather Pressure-Stabilized		0.37 in. Hg	3.0 in. Hg	N/A
Fuel Inlet Pressure		31.36 psia	50 psia	5 psig
VIBRATION LIMITS-INLET:				
All Pick-ups above 6300 N2 obs.		1.23 mils (p/p)	2.0 mils (p/p)	N/A
All Pick-ups upto 6300 N2 obs.		0.45 mils (p/p)	4.0 mils (p/p)	N/A
VIBRATION LIMITS-DIFFUSER:				
All Pick-ups above 6300 N2 obs.		0.59 mils (p/p)	2.0 mils (p/p)	N/A
All Pick-ups upto 6300 N2 obs.		0.38 mils (p/p)	4.0 mils (p/p)	N/A
VIBRATION LIMITS-EXHAUST:				
All Pick-ups above 6300 N2 obs.		1.14 mils (p/p)	2.0 mils (p/p)	N/A
All Pick-ups upto 6300 N2 obs.		1.14 mils (p/p)	4.0 mils (p/p)	N/A
BLEED VALVE LIMITS-CLOSING				
Bleed Valve Right		80 psig	80 psig	75 psig
Bleed Valve Top		98 psig	100 psig	95 psig
Bleed Valve Left		118 psig	120 psig	115 psig
BLEED VALVE LIMITS-OPENING				
Bleed Valve Right		78 psig	80 psig	74 psig
Bleed Valve Top		95 psig	98 psig	92 psig
Bleed Valve Left		114 psig	118 psig	112 psig

Engineering Analysis Approval: _____

Date: _____



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FULL ACCEPTANCE TEST DATA

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WGP&W		MODEL: GG4C-1D			E/S/N: 686626		DATE: 08-Aug-08	
PARAMETER	EPR	1.121	3.058	2.955	2.849	2.741	2.647	
Time	hr:min	13:06	12:49	12:52	12:54	12:56	12:59	
Dry Bulb	F	62	61.5	61	62	62	62	
Wet Bulb	F	57	56.5	56	57	57	57	
Baro	inHg	29.65	29.65	29.65	29.65	29.65	29.65	
Cell Dep.	insH2O	-0.277	-2.327	-2.521	-2.299	-2.022	-2.659	
P ref	psia	14.56	14.50	14.50	14.50	14.51	14.51	
T2	°C	16.67	16.39	16.11	16.67	16.67	16.67	
T2	°F	62	61.5	61	62	62	62	
PT2	psia	14.56	14.49	14.48	14.49	14.50	14.47	
Ps3	psia	17.46	62.20	61.00	59.50	57.91	56.41	
Ps4	psia	40.96	189.30	183.90	177.30	170.81	164.31	
PT7	psia	16.32	44.30	42.79	41.28	39.74	38.31	
PT7	in Hg	33.21	90.15	87.08	84.00	80.87	77.96	
Fuel Press	psig	31	5	5	7	7	9	
Fuel Tmp	°F	68	68	68	68	68	68	
N1	rpm	3065	6481	6393	6287	6175	6077	
N2	rpm	6045	8343	8295	8235	8165	8106	
Main Oil Temp	°F	186	202	211	213	212	209	
Main Oil Press	psig	37.90	46.10	45.70	45.40	45.30	45.10	
Breather Press	in Hg	0.12	0.37	0.35	0.35	0.33	0.31	
Inlet Vibration	p/p	0.45	0.78	0.63	0.65	1.23	1.15	
Diffuser Vibration	p/p	0.38	0.54	0.48	0.54	0.59	0.43	
Exhaust Vibration	p/p	1.14	0.37	0.41	0.43	0.34	0.32	
Fuel Flow Uncorr	pph	2331	15767	15073	14192	13202	12472	
EGT Avg.	°F	621	1232	1199	1164	1126	1093	
EGT Spread	°F	145	132	132	129	127	124	
EGT 1	°F	547	1177	1141	1108	1074	1037	
EGT 2	°F	600	1221	1191	1157	1120	1088	
EGT 3	°F	652	1273	1239	1203	1168	1132	
EGT 4	°F	692	1292	1261	1224	1184	1151	
EGT 5	°F	663	1269	1234	1197	1153	1123	
EGT 6	°F	570	1160	1129	1095	1057	1027	

CORRECTED, CALCULATED DATA

EPR		1.121	3.058	2.955	2.849	2.741	2.647
N1	rpm	3058	6468	6383	6271	6159	6061
N2	rpm	6029	8326	8282	8213	8144	8085
FUEL FLOW	pph	2356	16015	15315	14415	13401	12680
EGT	°C	324	663	645	624	603	585
EGT	°R	1075	1685	1653	1614	1577	1545
Ps3/Pt2		1.20	4.29	4.21	2.98	2.95	2.91
Ps4/Pt2		2.81	13.07	12.70	12.24	11.78	11.35



WOOD GROUP TURBINE PRATT AND WHITNEY GG4C-1D PERFORMANCE EVALUATION

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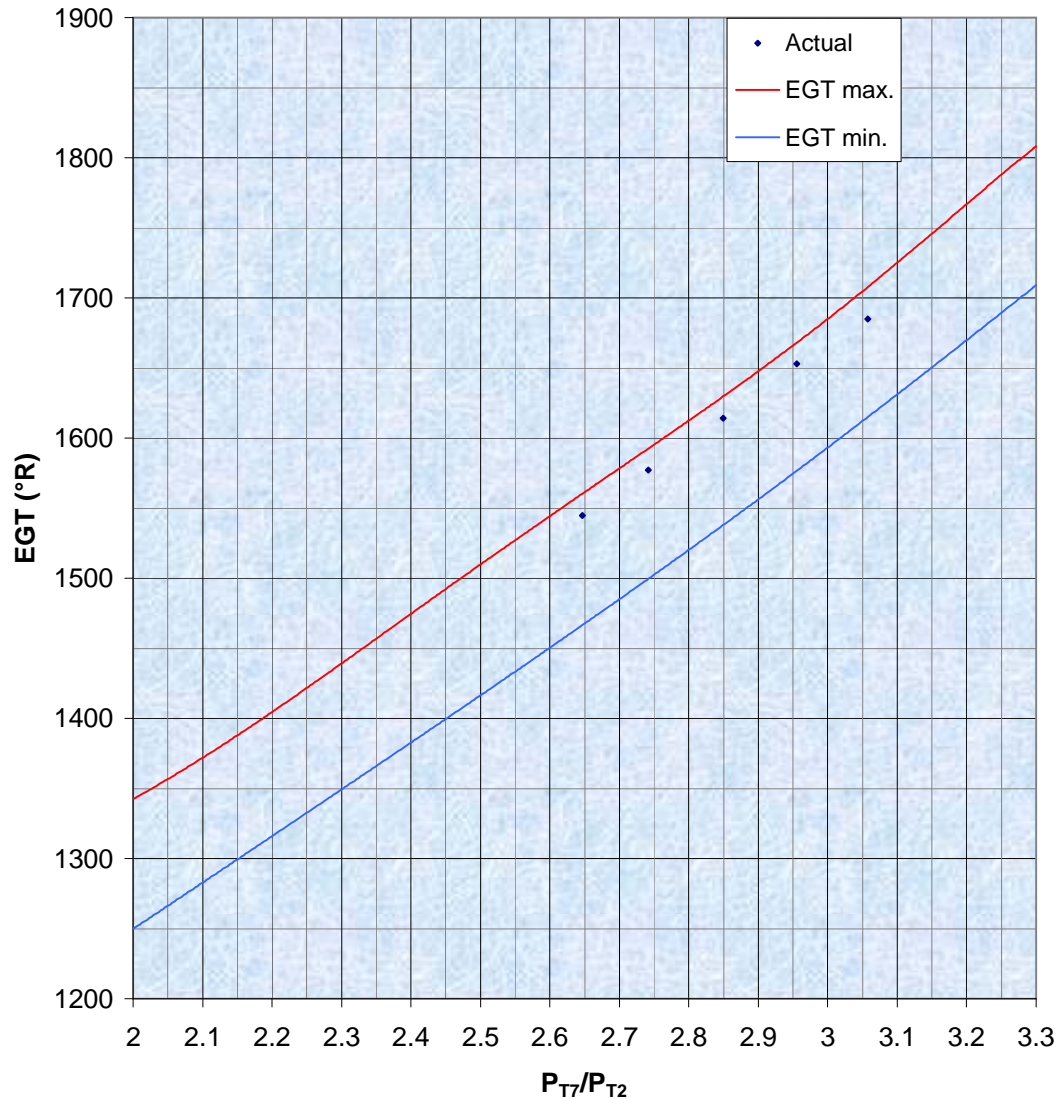
WGP&W

MODEL: GG4C-1D

E/S/N: 686626

DATE: 08-Aug-08

Generator Match Limits (GG4C-1D)



Reference: Pratt & Whitney GG4C Overhaul Manual P/N 729003, Section 1-00-1 Figure 703A



WOOD GROUP PRATT AND WHITNEY GG4C-1D PERFORMANCE EVALUATION

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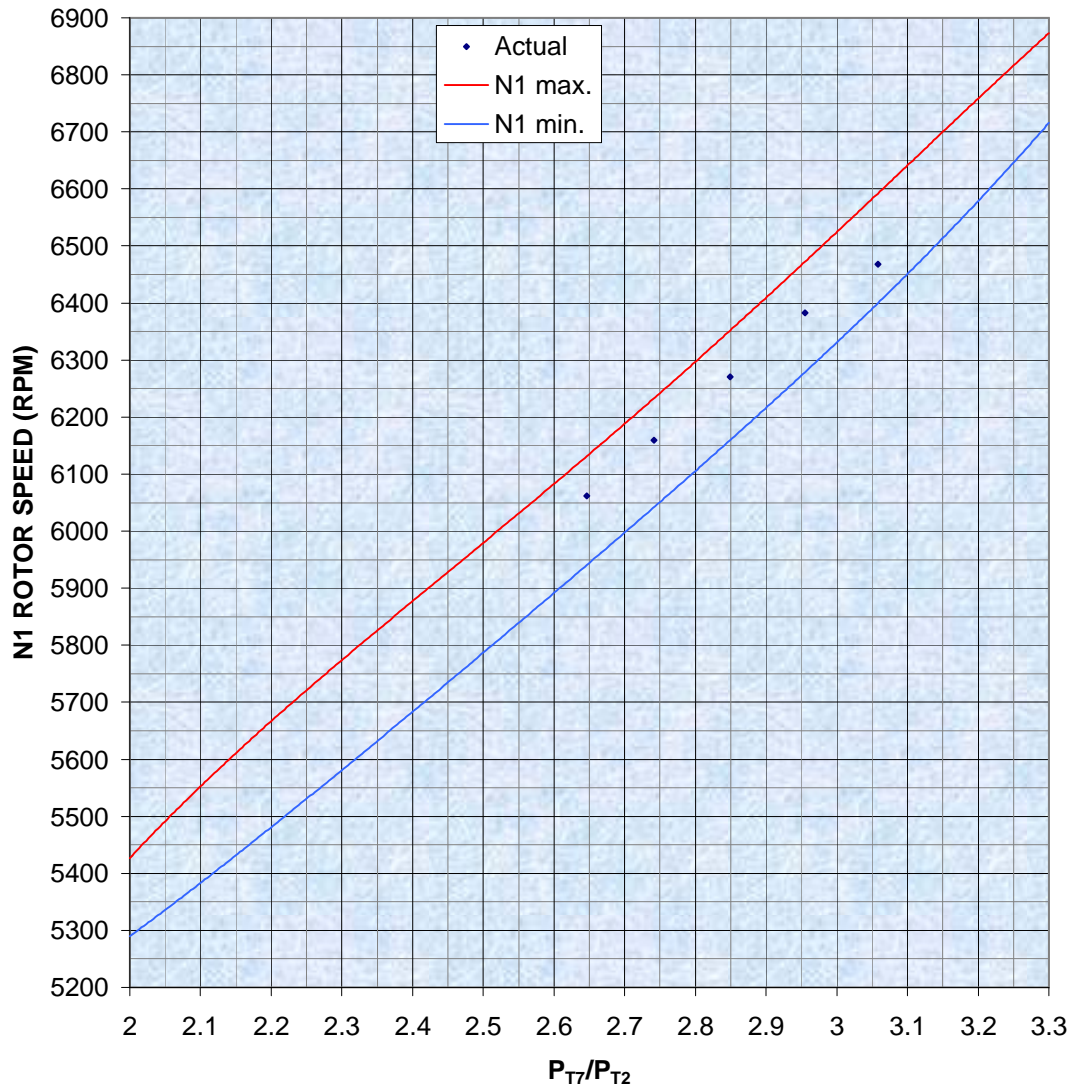
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MODEL: GG4C-1D

E/S/N: 686626

DATE: 08-Aug-08

Generator Match Limits (GG4C-1D)



Reference: Pratt & Whitney GG4C Overhaul Manual P/N 729003, Section 1-00-1 Figure 703A



WOOD GROUP PRATT AND WHITNEY GG4C-1D PERFORMANCE EVALUATION

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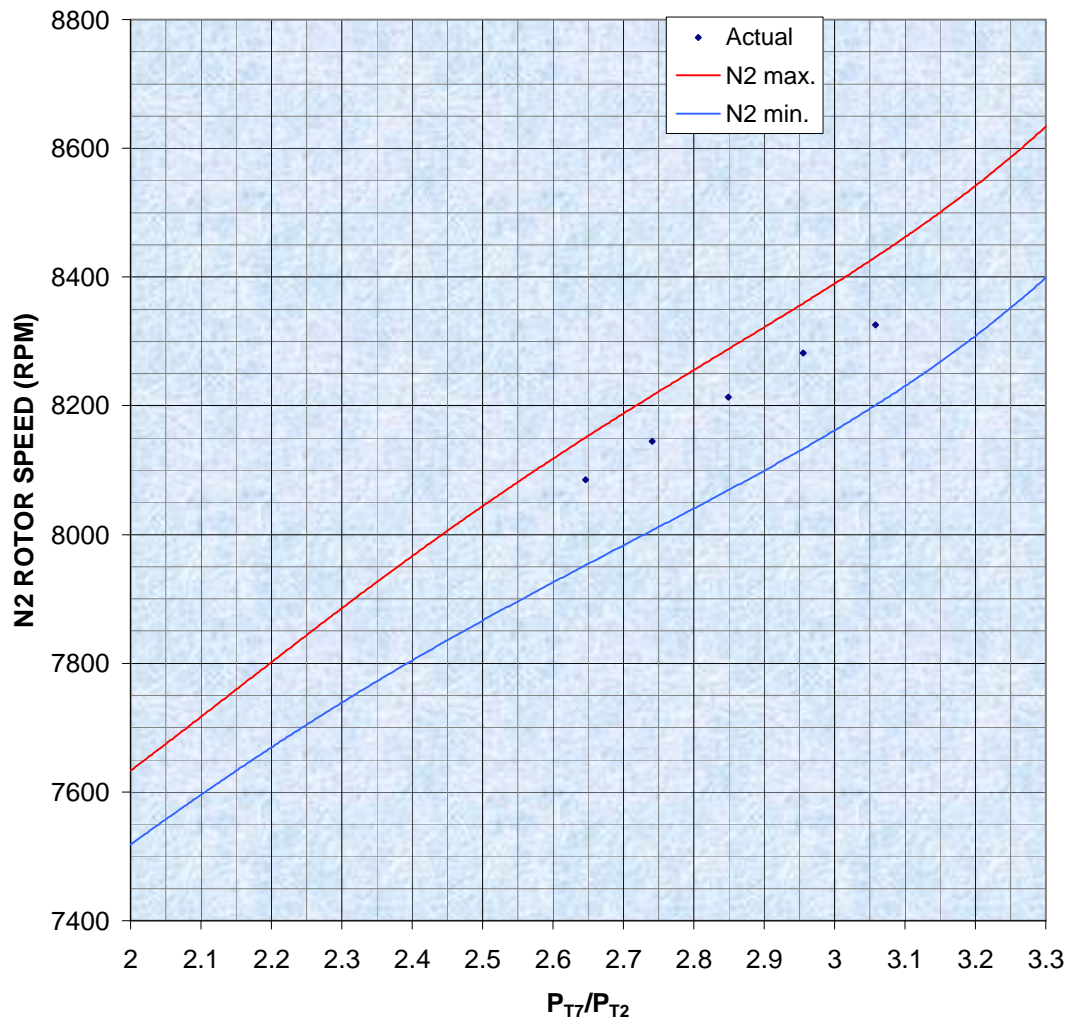
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Generator Match Limits (GG4C-1D)



Reference: Pratt & Whitney GG4C Overhaul Manual P/N 729003, Section 1-00-1 Figure 703



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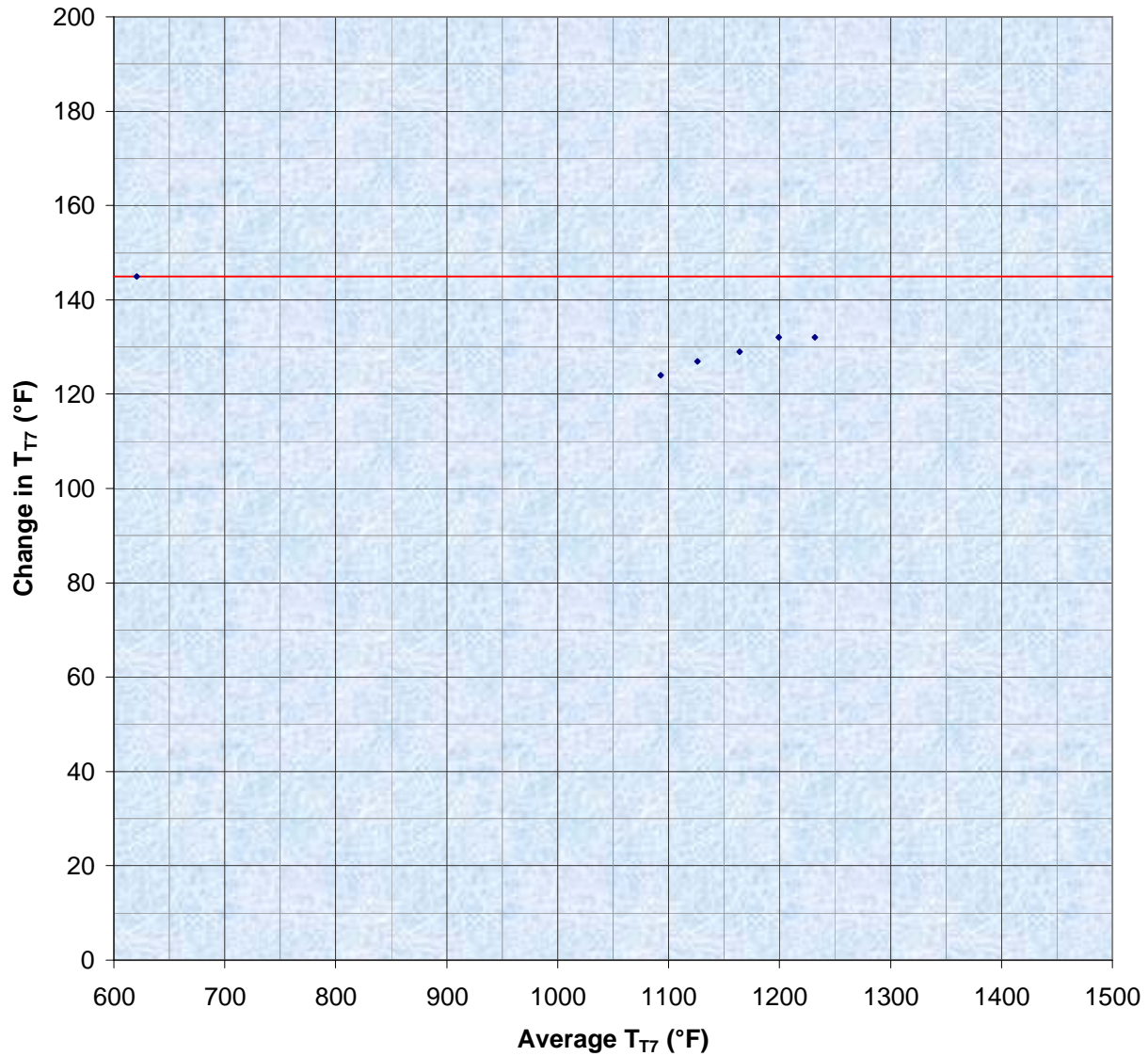
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MODEL: GG4C-1D

E/S/N: 686626

DATE: 08-Aug-08

Exhaust Gas Temperature Spread Check



Reference: Pratt & Whitney GG4C Overhaul Manual P/N 729003, Section 1-00-1 Figure 707



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WGP&W

MODEL: GG4C-1D

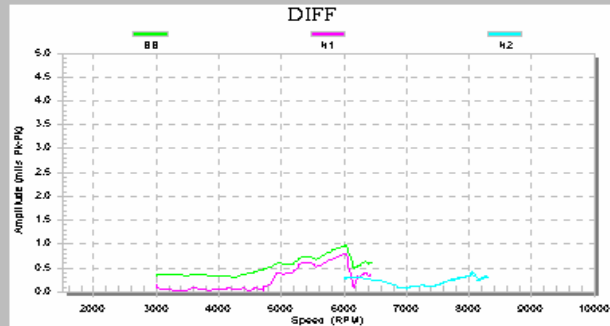
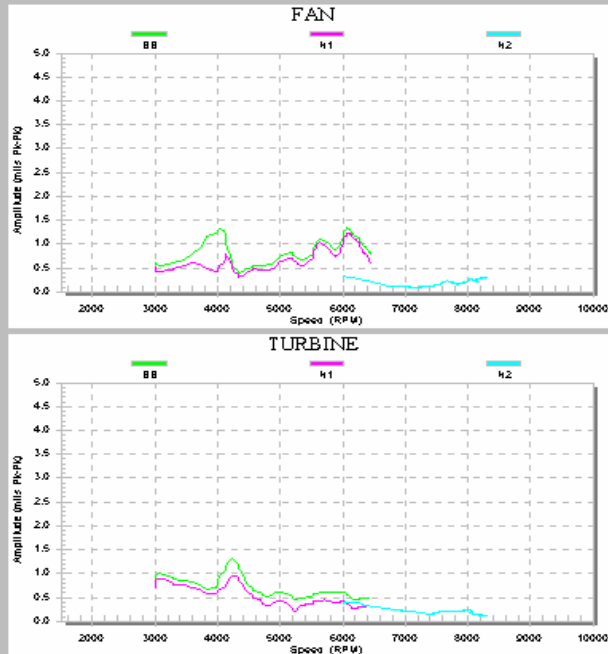
E/S/N: 686626

DATE: 08-Aug-08

GG4C
686626

Accel Survey

08/08/2008
12:45:05



GG4C
686626

Decel Survey

08/08/2008
12:43:21

