

We were presented with PT6A-60AG serial number PC-E RG0084 after a propeller strike. We repaired the power section module in accordance with the guidance provided with Pratt & Whitney. As a matter of course (company SOP) we removed the compressor turbine disk to visually inspect the compressor turbine vane assembly with no defects noted. We also examine the back half (gas generator module) per Pratt & Whitney and noted that the fuel pump and fuel-oil heater were unaffected by the incident. In light of this finding and the lack of damage (i.e. rub) in the hot section we affected no repairs to the gas generator module. The engine was installed on the test cell and started and operated normally (see attached test report).


Danny Thompson A&P # 
R.T. Turbines Inc.
CRS# MW9R610J

Engine Model	PT6A-60AG	Sample SG	0.7909	TM to Idle(sec)	26.7
Service Bulletin 1		Sample Temp	76	TM RunDown(sec)	
Service Bulletin 2		LHV (BTU/LB)	18560	Accel TM(sec)	
Build Spec.		SG Base	0.76142	Decel TM(sec)	
Serial Number	RG0084	TBO	100	Total Run TM(min.)	27.5
Work Order	02772	1st Vane Class	0	Fuel Used(Gallons)	31.8
WO Entry Date	5/31/2017	2nd Vane Class	0		
Customer	GAC	CT Tip Clearance	0		
Operator	KL	PT Tip Clearance 1	0		
Run Number	1	PT Tip Clearance 2	0		
Run Note		PT Tip Clearance 3	0		
Date		6/1/2017	6/1/2017		
Time		9:20:34 AM	9:21:26 AM		
Setting		1st PPT	Idle		
NG RPM	RPM	37408	24110		
NG PCT	%	99.84	64.35		
NG/RTH	RPM	0.0	23589.1		
NF RPM	RPM	29887.7	16748.8		
NF PCT	%	100.0	56.0		
NF/RTH	RPM	0.0	16386.6		
Dyno Inlet Temp	°F	81.5	83.5		
Dyno Outlet Temp	°F	102.8	92.6		
Dyno RPM	RPM	1700.5	957.0		
Dyno Torque	ft-lbs	3675.9	364.8		
Dyno HP	HP	1190.2	66.5		
Dyno Water Prs.	psi	20.7	20.7		
Dyno Inlet Valve Position	%	-12.8	-12.8		
Dyno Outlet Valve Position	%	55.4	-0.4		
Torque Prs	"Hg	89.9	8.5		
SHP_TM (measured)	HP	1195	63		
SHPN_TM (Normalized)	HP	0.0	62.2		
Wf 1	PPH	658.5	159.0		
Wf 2	PPH	657.8	159.3		
Wf (Selected Measurement)	PPH	658.1	159.1		
Wf/DELRTH	PPH	0.0	155.8		
SFC	PPH/HP	0.000	2.504		
Wf1 Hz	Hz	713	171		
Wf2 Hz	Hz	695	167		
Fuel Temp	°F	82.1	81.4		
Fuel Prs	psi	9.4	16.6		
Fuel High Prs	psi	0.5	0.6		
Ambient Temp.	°F	80	82		
BARO	InHgA	29.86	29.87		
P Cell Depression	InH2O	0.0000	0.0000		
Inlet Static Prs.	"HgA	30.13	30.20		
TT1 Avg	°F	-459.7	82.2		
T1 Spread	°F	1.2	1.0		
TT5	°F	1487.6	1113.3		
Peak T5		1489.3	1489.3		
T7 AVG (°F)	°F	-459.7	1036.9		
T7 AVG (°R)	°R	0.0	1496.6		
TT7 Spread Port	°F	0.0	21.9		
TT7 Spread Stbd	°F	0.0	47.7		
TT7 Nozzle Difference	°F	0.0	9.3		
TT1 # 1	°F	81.3	82.0		
TT1 # 2	°F	80.2	81.7		
TT1 # 3	°F	81.2	82.4		
TT1 # 4	°F	81.1	82.7		
PS3A	psia	14.79	14.85		
RGB Oil Prs	psi	1.9	2.2		
Prop Oil Prs	psi	0.4	0.5		
T_Bleed	°F	-2405.4	-2405.4		
Bleed Prs	psi	0.21	0.25		
Main Oil Temp	°F	136.9	141.7		
Main Oil Prs	psi	123.7	117.7		
Scav Oil Temp	°F	149.6	156.6		
Scav Oil Prs	psi	46.7	33.4		
Plenum Prs	InH2O	5.03	5.08		
RGB Vib	g's	-3.2	-3.2		
PropGOV rpm	rpm	-21	-17		
FCU rpm	rpm	-30	-33		
Starter Volts	V	26.2	26.2		
Starter Amps	A	-3.2	-3.1		
Total Run Time	min	27	27		
General Timer	sec	0	0		
Wf Used	Gallon	30.6	31.8		
TT5/TH	°R	0.0	1509.5		
T5D/TH	°R	0.0	1580.6		
TT7_TH	°R	0.0	1432.6		
PS3/Del	PSIA	0.0	14.9		
W1RTH_DEL	LB/SEC	0.0	1.1		
PR_Ratio		0.00	1.01		