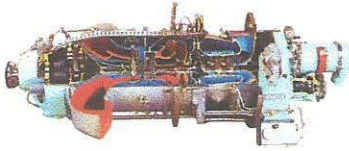


Turbine Power Technologies, Inc.



1340 Flightline Blvd.
DeLand, FL. USA. 32724
Tell/Fax: (386) 873-2982
www.turbinepowertech.com
E-mail: turbinepowertech@yahoo.com

REPORT

Doug Brazy and Michael Pupek
[REDACTED]

02-09-2016
ref: N401PT report

Lancair N401PT.

Turbine was bent and twisted.

Propeller governor broken due to impact. Remove propeller governor and confirm that shaft was not broken.

Propeller flange bent and damage from impact.

Hub was separated from propeller flange with the bolts still intact.

Performed boriscope inspection, determined that compressor turbine wheel was intact and did not fail.

Compressor turbine shaft unable to turn due to bent casing from impact.

Boroscope first stage compressor blades, were intact, no signs of FOD or failure.

Dismantle front gearbox, inspect planetary system, broke on impact. No signs of failure could be detected.

Remove front casings and confirm that power turbine wheel was spinning.

Power turbine blades bent and pushed into power turbine nozzle from impact.

Power turbine was rotating on impact.

Starter generator broken off turbine from impact.

Fuel control unit damaged from impact, but all lines intact.

Blow off valve was open, normal when turbine is shutting down.

Inner and outer combustion chamber were normal with no hot spots or failure detected.

Propeller hub - 1 blade separated hub on impact. Movement of blade ranges were normal.

Regards
Quentin Cokinogenis

Q. Cokinogenis