Fuel Consumed: 0.00

Horsepower/Thrust: 300

Service Difficulty Report (SDR) Information No Service Difficulty Reports Found

NTSB Accident Information

#NTSB1

Accident Occurred on: 2005-06-17 00:00:00

Narrative (ACCP): On June 17, 2005, at 1228 mountain daylight time, a Cessna 340A, N155RP, piloted by an airline transport pilot, was substantially damaged when the right main landing gear collapsed while taxiing from landing at Santa Fe Municipal Airport (SAF), Santa Fe, New Mexico. Visual meteorological conditions prevailed at the time of the accident. The local personal flight was being conducted under the provisions of 14 CFR Part 91 without a flight plan. The pilot was not injured. The flight originated at Santa Fe, New Mexico, approximately 1155. The pilot said this was the first flight for the airplane after an annual inspection, and he was "breaking in a new cylinder." The flight, which included an in-flight gear extension and retraction, was uneventful. After landing and while taxiing back to the hangar, the right main landing gear collapsed and the right wing struck the ground. Postaccident inspection disclosed multiple broken ribs in the right wing. A bolt attached to the lower portion of the bell crank was sheared and the main landing gear trunion was broken. An FAA inspector said that during the annual inspection, maintenance personnel had improperly rigged the main landing gear. According to maintenance records, both main landing gear push-pull tubes were removed when the gear were rigged. The Cessna 340A service manual requires the drive tubes --- not the push-pull tubes --- be disconnected. The left push-pull appeared to be installed upside down. When the center attach point bolt sheared, the load was transmitted to the clevis on the landing gear trunion and it failed. A Cessna Aircraft Company spokesman agreed, saying the failure mode of the bolt suggested improper rigging of the overcenter mechanism. When the push-pull tubes were reinstalled, they were not properly aligned. Aircraft load was transmitted to the center pivot on the main landing gear bellcrank, causing it to fail. The failed bolt was examined by NTSB's Materials Laboratory. Their report confirmed "ductile overstress fracture in direct shear" caused by instantaneous overload of the bolt. Numerous attempts to obtain a completed NTSB Form 6120.12 from the pilot were unsuccessful.

Narrative (ACCF): While taxiing from landing following a post-annual inspection flight, the right main landing gear collapsed. Maintenance records indicated both main landing gear push-pull tubes had been removed when the gear was rigged. The service manual requires the drive tubes — not the push-pull tubes — be disconnected. The left push-pull appeared to have been installed upside down and had not been properly aligned. Aircraft load was

February 7, 2006

Invoice #: 00030512

FORMULA PARTNERS, LLC. 858 W. WRIGHT WOOD CHICAGO IL 60614

Registration No: N155RP

Make & Model : CESSNA 340A

W.O. Number : 10291

- 1. REMOVED DAMAGED RH PROPELLER AND PERFORMED CRANKSHAFT FLANGE DIAL INDICATOR AND DYE INSPECTION.
 INSTALLED REPLACEMENT PROPELLER.
 MECHANICALLY DOWN LOCKED LANDING GEAR. COMPLETED TEMPORARY REPAIRS TO WING AND FERRIED AIRCRAFT TO GREELEY, COLORADO.
- 2. REMOVED RH ENGINE AND PROPELLER.
 REINSTALLED ENGINE AFTER TEAR-DOWN
 INSPECTION. REPLACED TAIL PIPE.
 INSTALLED OVERHAULED HARTZELL
 PROPELLER.
- 3. REMOVED RH TIP TANK, AILERON, FUEL BLADDER, AND DE-ICE BOOT.
- 4. REPAIRED RH WING, REPLACED SPAR WEB, TIP RIB, UPPER & LOWER OUTBOARD SKINS, LEADING EDGE SKIN, AND DE-ICE BOOT. REPAIRED TIP TANK FAIRING.
- 5. REPAIRED RH AILERON, REPLACED LEADING EDGE AND TRAILING EDGE SKINS.

((Continued on Next Page))

February 7, 2006

Invoice #: 00030512

FORMULA PARTNERS, LLC. 858 W. WRIGHT WOOD CHICAGO IL 60614

Registration No: N155RP

Make & Model : CESSNA 340A W.O. Number : 10291

- 6. REPAIRED RH LANDING GEAR, REPLACED TRUNNION, LOWER SCISSOR, AND BELLCRANK. RESEALED LANDING GEAR ASSEMBLY AND SERVICED.
- 7. REPLACED DAMAGED RH INBOARD GEAR DOOR AND CHECKED LANDING GEAR SYSTEM RIGGING.
- 8. REINSTALLED RH TIP TANK AND AILERON. PERFORMED OPERATIONAL CHECK.
- 9. COMPLETED FAA REQUIRED PAPER WORK, TEST FLEW, AND DELIVERED AIRCRAFT TO PAINT SHOP IN KINGMAN, ARIZONA.

Labor:

\$25,155.00

1 S133-4P1.000 1 PHC-C3YF-2UF 1 0826002-201 2 0841011-3 25 NAS561P4-28 1 5041013-3	CHT PROBE SPACER PROPELLER GEAR DOOR (O/H) PIN PIN BUSHING (Continued on Next Page))	157.00 0.47	175.20 54.50 6900.00 2713.45 314.00 11.75 45.70

February 7, 2006

Invoice #: 00030512

FORMULA PARTNERS, LLC. 858 W. WRIGHT WOOD CHICAGO IL 60614

Registration No: N155RP

Make & Model : CESSNA 340A W.O. Number : 10291

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7-1-00	SPACER TAIL PIPE O/H TUBE TRUNNION O/H TUBE BELLCRANK BRACE LINK FENCE SEAL STIFFENER BRACKET BRACKET BRACKET CLAMP VORTEX GENERATOR KIT DE-ICE BOOT SCREW FITTING BOLT BOLT BOLT BOLT BOLT BOLT BULKHEAD BOLT	0.79	19.75 525.00 150.00 6240.00 900.00 1206.60 900.00 85.00 8.58 20.70 13.41 156.00 168.00 150.00 330.00 3265.00 231.00 380.00 42.84 36.75 20.40 24.34 267.00 514.00
	4553	LAMP		
	((Contir	ued on Next Page))		

February 7, 2006

Invoice #: 00030512

FORMULA PARTNERS, LLC. 858 W. WRIGHT WOOD CHICAGO IL 60614

Registration No: N155RP
Make & Model : CESSNA 340A
W.O. Number : 10291

	1 5154056-2 1 0823400-175 1 PRB-2855 1 FERRY EXPENSE 1 TRANSPORTATION EXP 1 FUEL 1 SHOP SUPPLIES 1 SKIN MATERIAL	GASKET GASKET CHT ADAPTOR PROBE	23.70 63.00 252.00 600.00 600.00 810.00 1568.00 250.00
	Parts:		\$31,192.49
	Freight:		\$2,128.50
	OUTSIDE LABOR:		
	POWER AVIATION, INC. RAM AIRCRAFT CORPORA EAGLE FUEL CELLS STRAUBE AIRCRAFT	LIQUID PENETRANT INSPECTED LENGINE INSPECTION OVERHAULED FUEL CELL 442CW O/H VACUUM PUMP GOVERNOR INSPECTION PAINTING	330.00 10,725.00 1,154.00 600.00 750.00 5,400.00
Outside Labor:		abor:	\$18,959.00
		GRAND TOTAL:	\$77,434.99