Printed on: 2/9/2009 1:05:49 AM

Brief of Accident

Adopted 07/23/2003

NYC02LA184

File No. 13719	09/07/2002	Renfrew, PA	Aircraft Reg No.	N373TG	Tim	ne (Local): 14:00 EDT
Make/Mode Engine Make/Mode Aircraft Damage Number of Engine Operating Certificate(s Type of Flight Operation Reg. Flight Conducted Unde	e: Substantial s: 1): None n: Personal		Crew Pass	Fatal 1 0	Serious 0 0	Minor/None 0 0
	t: Butler, PA n: Zelienople, PA y: Off Airport/Airstrip		Condition of Light: Day Weather Info Src: Weather Observation Facility Basic Weather: Visual Conditions Lowest Ceiling: 4000 Ft. AGL, Broken Visibility: 10.00 SM Wind Dir/Speed: 360 / 008 Kts Temperature (°C): 23 Precip/Obscuration:			
Pilot-in-Command Ag	ge: 51			Flight T	ime (Hours)	
Certificate(s)/Rating(s) Private; Single-engine Land; Helicopter			Total All Aircraft: 520 Last 90 Days: Unk/Nr			

and small pieces of metal were retrieved, with a magnet, from within the transmission. Examination of the engine revealed no preimpact

Instrument Ratings
None

failures or malfunctions.

The amateur built helicopter was reported missing, and then located the following day. No information regarding the en route portion of the flight was available. No witnesses reported seeing the accident, and the pilot was not in radio contact with any air traffic control facilities, or automated flight service stations. The helicopter had a total of 25.6 hours of operation since construction. Examination of the wreckage revealed minor damage to both main rotor blades. Flight control continuity was confirmed from the cockpit to the main rotor and tailrotor. The transmission chip detector had metal fragments on it, the transmission oil contained suspended metal particles,

Total Make/Model: Unk/Nr Total Instrument Time: Unk/Nr

Brief of Accident (Continued)

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File No. 13719 09/07/2002 Renfrew, PA Aircraft Reg No. N373TG Time (Local): 14:00 EDT

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation: CRUISE

Findings

1. (C) ROTOR DRIVE SYSTEM, MAIN GEARBOX/TRANSMISSION - FAILURE

Occurrence #2: LOSS OF CONTROL - IN FLIGHT Phase of Operation: DESCENT - UNCONTROLLED

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Findings

2. TERRAIN CONDITION - GRASS

Findings Legend: (C) = Cause, (F) = Factor

The National Transportation Safety Board determines the probable cause(s) of this accident as follows. Failure of the main transmission.