Aviation Safety Investigation Report 199801249

Robinson Helicopter Co R44

04 April 1998

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Aviation Safety Investigation Report

199801249

Occurrence Number: 199801249 Occurrence Type: Accident

Location: 8km SW Walkerville

State: VIC Inv Category: 4

Date: Saturday 04 April 1998

Time: 1345 hours **Time Zone** EST

Highest Injury Level: None

Aircraft Manufacturer: Robinson Helicopter Co

Aircraft Model: R44

Aircraft Registration: VH-OCT Serial Number:

Type of Operation: Non-commercial Pleasure/Travel

Damage to Aircraft: Substantial **Departure Point:** Lilydale Vic.

Departure Time:

Destination: Hobart Tas.

Crew Details:

	Hours on		
Role	Class of Licence	Type Hours	Total
Pilot-In-Command	Private	30.0	830

Approved for Release: Wednesday, June 24, 1998

The pilot reported that the engine stopped in the cruise at about 600 ft. He entered autorotation and landed in low trees and scrub.

The engine stopped because the crank shaft drive gear bolt failed due to hydrogen embrittlement. When the bolt failed drive to the accessories was lost.

The manufacturer has verbally assured CASA that this was an isolated instance of a bolt failure.