

**Aviation Safety Investigation Report
199402962**

**Cessna Aircraft Company
Stationair**

14 October 1994

Readers are advised that the Australian Transport Safety Bureau investigates for the sole purpose of enhancing transport safety. Consequently, Bureau reports are confined to matters of safety significance and may be misleading if used for any other purposes.

Investigations commenced on or before 30 June 2003, including the publication of reports as a result of those investigations, are authorised by the Executive Director of the Bureau in accordance with Part 2A of the Air Navigation Act 1920.

Investigations commenced after 1 July 2003, including the publication of reports as a result of those investigations, are authorised by the Executive Director of the Bureau in accordance with the Transport Safety Investigation Act 2003 (TSI Act). Reports released under the TSI Act are not admissible as evidence in any civil or criminal proceedings.

NOTE: All air safety occurrences reported to the ATSB are categorised and recorded. For a detailed explanation on Category definitions please refer to the ATSB website at www.atsb.gov.au.

The Bureau did not conduct an on scene investigation of this occurrence. The information presented below was obtained from information supplied to the Bureau.

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|--|----------------------------------|
| Occurrence Number: 199402962 | Occurrence Type: Incident |
| Location: 111km E Darwin (Point Stuart) | |
| State: NT | Inv Category: 4 |
| Date: Friday 14 October 1994 | |
| Time: 1448 hours | Time Zone: CST |
| Highest Injury Level: None | |

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|---|--------------------------------|
| Aircraft Manufacturer: Cessna Aircraft Company | |
| Aircraft Model: 207 | |
| Aircraft Registration: VH-EHL | Serial Number: 20700141 |
| Type of Operation: Charter Passenger | |
| Damage to Aircraft: Nil | |
| Departure Point: Darwin NT | |
| Departure Time: 1408 CST | |
| Destination: Mudjeegarradart NT | |

Crew Details:

| <u>Role</u> | <u>Class of Licence</u> | <u>Hours on</u> | |
|------------------|-------------------------|-----------------|--------------------|
| | | <u>Type</u> | <u>Hours Total</u> |
| Pilot-In-Command | Commercial | 50.0 | 525 |

Approved for Release: Thursday, February 8, 1996

The aircraft enroute from Darwin to Mudjeegarradart suffered an engine failure. The pilot attempted to restart the engine without success, then advised Adelaide Flight Service that he was carrying out a forced landing. Another aircraft in the area was diverted to assist. The pilot made a safe landing with no damage suffered by the aircraft.

Investigation revealed that the crankshaft had failed due to incorrect assembly of the main bearing shell housings during overhaul. This allowed a progressive reduction in the radial preload imposed on the bearing shells resulting in bearing shell slippage, blocking of the oil galleries and subsequent fatigue failure of the crankshaft.

