

Aviation Safety Investigation Report
198803499

Cessna 185-C

18 November 1988

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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.

This accident was not subject to an on scene investigation.

Occurrence Number: 198803499 **Occurrence Type:** Accident
Location: Palm Island QLD
Date: 18 November 1988 **Time:** 642
Highest Injury Level: Nil
Injuries:

	Fatal	Serious	Minor	None
Crew	0	0	1	1
Ground	0	0	0	-
Passenger	0	0	0	4
Total	0	0	0	5

Aircraft Details: Cessna 185-C
Registration: VH-CMW
Serial Number: 185-0678
Operation Type: Charter
Damage Level: Substantial
Departure Point: Ingham QLD
Departure Time: 0625
Destination: Palm Island QLD

Approved for Release: June 27th 1989

Circumstances:

At about 50 knots during the landing roll, the pilot discovered that the right wheel brake had failed. The aircraft had swerved to the left when both brakes had been applied. With the rudder control ineffective at low speed, the pilot intentionally ground looped the aircraft to avoid running into the perimeter drainage ditch. The right main gear collapsed and the right wing was damaged as a result of the ground loop. Examination of the right brake unit revealed that the master cylinder was corroded internally, allowing brake fluid to bypass the seal.

Significant Factors:

The following factors were considered relevant to the development of the accident

1. Internal corrosion of brake Master cylinder allowed brake fluid to bypass a seal.
2. Right brake failed during the landing roll.
3. The pilot intentionally ground looped the aircraft to avoid a drainage ditch.