

**Aviation Safety Investigation Report
199902785**

**Short Bros Pty Ltd
Shorts 360**

08 June 1999

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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.

Occurrence Number: 199902785	Occurrence Type: Incident
Location: 28km NNW Maroochydore/Sunshine Coast, Aerodrome	
State: QLD	Inv Category: 4
Date: Tuesday 08 June 1999	
Time: 0906 hours	Time Zone: EST
Highest Injury Level: None	
 Aircraft Manufacturer: Short Bros Pty Ltd	
Aircraft Model: SD360-300	
Aircraft Registration: VH-SUF	Serial Number: SH3764
Type of Operation: Air Transport Domestic Low Capacity Passenger Scheduled	
Damage to Aircraft: Nil	
Departure Point: Brisbane Qld	
Departure Time: 0847 EST	
Destination: Maryborough Qld	

Crew Details:

Role	Class of Licence	Hours on Type	Hours Total
Pilot-In-Command	ATPL	1200.0	17800

Approved for Release: Wednesday, October 6, 1999

While cruising at 8,000 ft, enroute from Brisbane to Maryborough, the crew of the Shorts 360 aircraft heard a loud bang emanate from the left engine, followed by an increase in the engine's inter-turbine temperature indication. The crew shut-down the engine in accordance with company operating procedures and diverted for a landing at Maryoochydore.

Following an initial inspection, the operator removed the engine and forwarded it to the manufacturer for an investigation and report.

The manufacturer found that the engine's number 1 bearing had failed. The bearing balls and races exhibited "spalling", and fatigue fracturing of the bearing roller cage was evident. The investigation report concluded that due to the severe secondary damage to the bearing assembly, the reason for the failure of the bearing could not be determined.

