

Aircraft type and registration:	PA 25-235 (Light single engined fixed wing aircraft) G-BGPP	
Year of manufacture:	1979	
Date and time (GMT):	23 May 1983 at 1115 hrs	
Location:	Plumby, Cheshire	
Type of flight:	Crop spraying	
Persons on board:	Crew - 1	Passengers - Nil
Injuries:	Crew - Nil	Passengers - N/A
Nature of damage:	Damage to propellor, engine, slight damage to the right undercarriage, wing leading edge and spraying equipment	
Commander's Licence:	Commercial	
Commander's Age:	29 years	
Commander's total flying experience:	3586 hours (of which 2630 hours were on type)	

The pilot was completing a series of crop spraying runs when, whilst manoeuvring at a height of 20 feet for the last pass, the engine failed. He dumped the remaining chemical load and force landed the aircraft during which damage was sustained to the engine propellor and airframe.

Subsequently, the pilot supervised the disassembly of the aircraft in the field and shipped the engine to an approved organisation for inspection and repair. The fuel quantity decanted from the aircraft at this time was not recorded.

The engine was stripped and re-built with a new crankcase, a new set of bearings and several other minor components, but with the original magnetos, ignition harness, sparking plugs and carburettor. None of these components had been strip examined. The subsequent engine test showed it to perform satisfactorily.