

ACCIDENT

Aircraft Type and Registration:	Tecnam P92-EA Echo, G-TCNM	
No & Type of Engines:	1 Jabiru 2200A piston engine	
Year of Manufacture:	2002 (Serial no: PFA 318-13922)	
Date & Time (UTC):	24 August 2014 at 0910 hrs	
Location:	Lleweni Parc Airfield, Denbigh, Denbighshire	
Type of Flight:	Private	
Persons on Board:	Crew - 1	Passengers - None
Injuries:	Crew - None	Passengers - N/A
Nature of Damage:	Damage to nose and right main landing gear legs, fuselage spaceframe and propeller	
Commander's Licence:	Private Pilot's Licence	
Commander's Age:	67 years	
Commander's Flying Experience:	650 hours (of which 300 were on type) Last 90 days - 10 hours Last 28 days - 2 hours	
Information Source:	Aircraft Accident Report Form submitted by the pilot	

Synopsis

The aircraft's engine failed shortly after takeoff, following which the aircraft stalled. The pilot was unable to recover from the stall before the aircraft struck the ground close to the departure runway, causing damage to the aircraft's propeller, landing gear and fuselage spaceframe.

History of the flight

The pilot intended to make a flight from Llewyni Parc Airfield to Wolverhampton Airport. After completing pre-departure power checks, during which the engine responded normally, he lined up on Runway 27 and applied full power. The takeoff roll proceeded normally and, as the indicated airspeed reached 45 kt, the pilot rotated the aircraft and climbed away at approximately 45 kt. The pilot stated that, as the aircraft passed 200 ft agl, the engine lost power suddenly and very shortly thereafter the aircraft stalled. The pilot had insufficient height to recover from the stall and the aircraft impacted the grass to the right of the runway in a level attitude, approximately 300 m from the start of the takeoff roll. The ground impact caused the nose and right main landing gear legs to collapse and distorted the fuselage's steel-tube spaceframe. The propeller, which was windmilling at impact, sustained damage to the propeller tips.

The aircraft's flight manual lists, for an aircraft weight of 450 kg and with the flaps retracted, the speed for best rate of climb, V_y , as 62 kt. The stalling speed with the flaps set at 15° is

listed as 36 kt. The speed for best angle of climb, V_x , is not listed in the flight manual, however information supplied by the LAA, from a flight test report of the Tecnam P92J¹, indicated that V_x is 52 kt for an aircraft weight of 525 kg.

As the aircraft had not accelerated to at least V_x before being placed into a climbing attitude, following the engine failure the pilot had little time to react before the airspeed reduced and the aircraft stalled.

Footnote

¹ The Tecnam P92J is a factory-built version of the P92E, equipped with a Rotax 912A engine.
