

# Morane Saulnier Rallye 235E, G-BGMT

## AAIB Bulletin No: 5/98 Ref: EW/G98/02/04 Category: 1.3

<b>Aircraft Type and Registration:</b>	Morane Saulnier Rallye 235E, G-BGMT
<b>No &amp; Type of Engines:</b>	1 Lycoming O-540-B4B5 piston engine
<b>Year of Manufacture:</b>	1978
<b>Date &amp; Time (UTC):</b>	7 February 1998 at 1700 hrs
<b>Location:</b>	Tatenhill Airfield, Leicestershire
<b>Type of Flight:</b>	Private
<b>Persons on Board:</b>	Crew - 2 - Passengers - None
<b>Injuries:</b>	Crew - None - Passengers - N/A
<b>Nature of Damage:</b>	Damage to nose cowlings, nose landing gear, propeller and engine
<b>Commander's Licence:</b>	Private Pilot's Licence with IMC Rating
<b>Commander's Age:</b>	40 years
<b>Commander's Flying Experience:</b>	307 hours (of which 47 were on type) Last 90 days - 8 hours Last 28 days - 5 hours
<b>Information Source:</b>	Aircraft Accident Report Form submitted by the pilot and AAIB enquiries

The aircraft was on a pleasure flight from a private airstrip near Dinston, Stafford, to Tatenhill Airfield with two persons on board. The weather was suitable and the wind was 240°/10kt. The flight was uneventful and the pilot reported that the approach and landing on Runway 26 were normal with the aircraft flaring at 60 kt and touching down on its main wheels at about 50 kt. The pilot then maintained back pressure on the control column until the nose wheel touched down, as normal, after which light braking was applied. At this point vibrations were felt from the front of the aircraft and these rapidly became violent before the nose wheel assembly detached. The nose of the aircraft contacted the ground causing damage to the propeller and cowling, and shock loading of the engine. The aircraft came to rest about 120 metres from the threshold of Runway 26, having left the nose wheels some 50 metres behind. The occupants, who were uninjured, evacuated the aircraft normally.

The associated maintenance organisation advised that the vibration and detachment of the nosewheel assembly had been caused by nosewheel shimmy. There had been at least one report of nosewheel shimmy before this accident, but the amplitude of the vibration had been minor. The aircraft was fitted with a self-castoring nosewheel with a friction type anti-shimmy device, and the maintenance organisation reported that this and several other areas of the nose landing gear would be stripped and inspected for serviceability.