

AUSTRALIAN SPORT ROTORCRAFT ASSOCIATION INC



ABN 53 412 417 012

No. AA 01/2007
Date: 12th February, 2007
Subject: Spin-On Filters

Background

During a routine flight, the engine fitted to a gyroplane suddenly failed. A successful forced landing was carried out. Upon inspection it was found that a spin-on oil filter has become loose to the extent that all the engine oil was pumped overboard. The engine was seized and proved uneconomical to repair.

Recommendations

ASRA **strongly recommends** that the owners and operators of gyroplanes fitted with spin-on filters of any type utilise a clamping system that will ensure that such filters cannot become loose whilst in service.

A suitable clamping system would utilise a suitable sized worm-drive clamp that is fitted as close to the filter lip as possible, tensioned such that it is firm but does not distort the filter body in any way and is lockwired to a suitable point on the engine or airframe.

ASRA **further recommends** that effective immediately, all such filters should be checked for security prior to each and every flight.

Allan Wardill
Operations Manager