



Safety recommendation no. 580

Date of the publication	21.09.2021
Safety deficit	<p>The crew of a Guimbal Cabri G2 helicopter constructed in 2020, equipped with a Lycoming Engines O-360-J2A engine that was also manufactured in 2020, performed an autorotation following a drop in engine oil pressure that resulted in too little tension on the drive belt and thus a reduction in rotor speed.</p> <p>The subsequent investigation showed a narrowed section, as well as chips and non-deburred drilling work in one of the oil ducts in the accessory housing. An inspection of further engines constructed in 2020 and 2021 revealed similar findings.</p> <p>It may therefore be assumed that further O-360 series engines will display similar shortcomings that, depending on use, might result in a considerable risk during flight operations.</p>
Safety recommendation	<p>The US Federal Aviation Administration should take appropriate action to ensure that engine manufacturer Lycoming Engines takes the proper steps to remedy the manufacturing deficiencies that have been identified.</p>
Addressees	Federal Aviation Administration
Investigation report concerning the safety recommendation	<p>Notification Rapporto preliminare Zwischenbericht Intermediate report Rapporto intermedio</p>