


<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No.: 2014-0175</b></p> <p><b>Date: 25 July 2014</b></p> <p>Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>
<p>This AD is issued in accordance with EU 748/2012, Part 21.A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>	
<p><b>Design Approval Holder's Name:</b> AGUSTAWESTLAND S.p.A.</p>	<p><b>Type/Model designation(s):</b> A119 and AW119 helicopters</p>
TCDS Number:	EASA.R.005
Foreign AD:	Not applicable
Supersedure:	None
<b>ATA 71</b>	<b>Powerplant – Engine Reduction Gear Box Bearings – Inspection / Replacement</b>
Manufacturer(s):	AgustaWestland S.p.A (formerly Agusta S.p.A.), AgustaWestland Philadelphia Corporation (formerly Agusta Aerospace Corporation).
Applicability:	A119 and AW119MK II helicopters, all serial numbers (S/N), if equipped with a Pratt & Whitney Canada (PWC) PT6B-37A engine having a S/N as listed in Appendix 1 of this AD.
Reason:	<p>Three occurrences were reported regarding wrong engine torque indication on AW119MKII helicopters. Investigation results determined that this was caused by the misplacement of a bearing inside the Reduction Gear Box (RGB) of the PT6B-37A engine, as the engine torque is detected by a “torque meter gear shaft” scrolling on two bearings (#9 &amp; #10).</p> <p>This condition, if not detected and corrected, could cause the application of an overtorque with possible damage of the powerplant system and could reduce the structural integrity and control of the helicopter.</p> <p>To address this unsafe condition, AgustaWestland issued Bolletino Tecnico (BT) No. 119-066 providing instructions for inspection and replacement of bearings with Part Number (P/N) 3310433-03.</p> <p>For the reason described above, this AD requires repetitive measurements of the axial distance between the torque-meter gear shaft and the bearing #10 inner race and, depending on findings, replacement of affected bearings.</p>
Effective Date:	01 August 2014

<p>Required Action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> <li>(1) Within 50 flight hours (FH) after the effective date of this AD <u>for all engines</u> and, subsequently, at intervals not exceeding 100 FH <u>for engines with less than 500 FH in service and until accumulating 500 FH</u>, inspect the bearings P/N 3310433-03 installed in the RGB of the PT6B-37A engine by measuring the axial distance between the bearing and the torque-meter gear shaft in accordance with the instructions of Part I of AgustaWestland BT No. 119-066.</li> </ol> <p>Note: The number of engine FH accumulated in service is counted on the effective date of this AD and since first installation of the engine on a helicopter. Once an engine has accumulated 500 FH in service without any findings, the repetitive inspections are no longer required.</p> <ol style="list-style-type: none"> <li>(2) If, during any inspection as required by paragraph (1) of this AD, the maximum axial distance found between the bearing P/N 3310433-03 and the torque-meter gear shaft is equal to or less than 2.6 mm, before next flight, replace the affected bearing with a serviceable part in accordance with the instructions of Part II (Annex 1) of AgustaWestland BT No. 119-066, or PWC Service Bulletin (SB) No. 39092.</li> <li>(3) Within 24 months after the effective date of this AD, replace each bearing P/N 3310433-03 installed on a PT6B-37A engine with a serviceable part in accordance with the instructions of Part II (Annex 1) of AgustaWestland BT No. 119-066, or PWC SB No. 39092.</li> <li>(4) Replacement of a bearing on an engine as required by paragraph (2) or (3) of this AD constitutes terminating action for the repetitive inspections as required by paragraph (1) of this AD for that engine.</li> </ol>
<p>Ref. Publications:</p>	<p>AgustaWestland BT No. 119-066 original issue dated 17 July 2014.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p> <p>PWC SB No. 39092 dated 12 February 2014.</p>
<p>Remarks:</p>	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.</li> <li>3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>4. For any question concerning the technical content of the requirements in this AD, please contact: Agusta S.p.A. Customer Support, Via del Gregge, 100 - 21015 Lonate Pozzolo (VA) – Italy Telephone + 39 0331 664600 ; Fax: + 39 0331 664684 E-mail: <a href="mailto:custserv@agustawestland.com">custserv@agustawestland.com</a>.</li> </ol>

**Appendix I – Affected Pratt & Whitney Canada PT6B-37A Engines listed by S/N**

PCE-PU0001	PCE-PU0073	PCE-PU0135	PCE-PU0178
PCE-PU0006	PCE-PU0074	PCE-PU0136	PCE-PU0179
PCE-PU0009	PCE-PU0076	PCE-PU0137	PCE-PU0180
PCE-PU0015	PCE-PU0078	PCE-PU0138	PCE-PU0181
PCE-PU0016	PCE-PU0079	PCE-PU0139	PCE-PU0182
PCE-PU0033	PCE-PU0080	PCE-PU0140	PCE-PU0183
PCE-PU0036	PCE-PU0081	PCE-PU0141	PCE-PU0185
PCE-PU0037	PCE-PU0082	PCE-PU0142	PCE-PU0186
PCE-PU0038	PCE-PU0083	PCE-PU0144	PCE-PU0187
PCE-PU0039	PCE-PU0084	PCE-PU0147	PCE-PU0188
PCE-PU0040	PCE-PU0085	PCE-PU0149	PCE-PU0189
PCE-PU0041	PCE-PU0086	PCE-PU0150	PCE-PU0191
PCE-PU0042	PCE-PU0087	PCE-PU0151	PCE-PU0194
PCE-PU0043	PCE-PU0092	PCE-PU0153	PCE-PU0195
PCE-PU0044	PCE-PU0096	PCE-PU0154	PCE-PU0196
PCE-PU0045	PCE-PU0098	PCE-PU0155	PCE-PU0197
PCE-PU0046	PCE-PU0100	PCE-PU0156	PCE-PU0198
PCE-PU0047	PCE-PU0105	PCE-PU0157	PCE-PU0199
PCE-PU0048	PCE-PU0106	PCE-PU0158	PCE-PU0200
PCE-PU0049	PCE-PU0107	PCE-PU0159	PCE-PU0201
PCE-PU0050	PCE-PU0109	PCE-PU0160	PCE-PU0202
PCE-PU0051	PCE-PU0110	PCE-PU0161	PCE-PU0203
PCE-PU0052	PCE-PU0111	PCE-PU0163	PCE-PU0204
PCE-PU0053	PCE-PU0112	PCE-PU0164	PCE-PU0205
PCE-PU0054	PCE-PU0121	PCE-PU0165	PCE-PU0206
PCE-PU0055	PCE-PU0122	PCE-PU0166	PCE-PU0207
PCE-PU0058	PCE-PU0125	PCE-PU0167	PCE-PU0208
PCE-PU0059	PCE-PU0126	PCE-PU0169	PCE-PU0209
PCE-PU0060	PCE-PU0127	PCE-PU0170	PCE-PU0212
PCE-PU0061	PCE-PU0128	PCE-PU0171	PCE-PU0213
PCE-PU0062	PCE-PU0129	PCE-PU0172	PCE-PU0214
PCE-PU0063	PCE-PU0130	PCE-PU0173	PCE-PU0216
PCE-PU0066	PCE-PU0131	PCE-PU0174	PCE-PU0219
PCE-PU0068	PCE-PU0132	PCE-PU0175	PCE-PU0220
PCE-PU0069	PCE-PU0133	PCE-PU0176	
PCE-PU0072	PCE-PU0134	PCE-PU0177	